PRODUCT DATA SHEETS

poliblend™ by Ascend

UNFILLED POLIMID B

UNFILLED POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	AV	AV /1	AV HF	AV FD	34	40	SG	SG/1	SG/5	SG LDM	SG HV	SG KW	SG FD
			PA 6 STANDARD VISCOSITY	PA 6 ECONOMICAL VERSION	PA 6 LOW VISCOSITY FAST CYCLES	PA 6 STANDARD VISCOSITY FDA CERTIFIED	PA 6 MEDIUM VISCOSITY	PA 6 HIGH VISCOSITY	PA 66 STANDARD VISCOSITY	PA 66 ECONOMICAL VERSION	PA 66 IMPROVED MOULDABILITY	PA 66 FAST CYCLES	PA 66 HIGH VISCOSITY	PA 66 HEAT STABILIZED	PA 66 STANDARD VISCOSITY FDA CERTIFIED
DENSITY	ISO 1183	g/cm³	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14	1,14
MELTING POINT	DSC	°C	222	222	222	222	222	222	260	260	260	260	260	260	260
MOULD SHRINKAGE (average)	ISO 294-4	%	1,2 - 1,6	1,2 - 1,6	1,3 - 1,7	1,2 - 1,6	1,2 - 1,6	1,3 - 1,8	1,3 - 1,7	1,3 - 1,7	1,2 - 1,6	1,2 - 1,6	1,3 - 1,7	1,3 - 1,7	1,3 - 1,7
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,5 / 9,0	1,5 / 9,0	1,5 / 9,0	1,5 / 9,0	1,5 / 9,0	1,5 / 9,0	1,2 / 8,5	1,2 / 8,5	1,2 / 8,5	1,2 / 8,5	1,2 / 8,5	1,2 / 8,5	1,2 / 8,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	205	205	205	205	205	205	255	255	255	255	255	255	255
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	170	170	170	170	170	170	220	220	220	220	220	220	220
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	60	60	60	60	60	60	80	80	80	85	85	85	80
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	80	80	80	80	80	80	90	90	90	90	90	110	90
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	>165	> 165	> 165	>165	> 165	>165	>165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES															
TENSILE YIELD STRESS	ISO 527	MPa	85	85	80	85	85	85	85	80	85	80	90	85	85
TENSILE STRENGTH AT BREAK	ISO 527	MPa	–	–	–	–	–	–	–	–	–	–	–	–	–
TENSILE MODULUS	ISO 527	MPa	3000	3000	2900	3000	3200	3300	3100	3100	3100	3300	3200	3000	3100
TENSILE YIELD STRAIN	ISO 527	%	5	5	5	4,5	4	4	4,5	4,5	4,5	4	4	4,5	4,5
TENSILE STRAIN AT BREAK	ISO 527	%	40	40	45	40	45	50	40	40	35	35	40	40	40
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	6	5,5	5,5	6	6,5	7	6	5,5	5,5	5,5	7	6	6
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB	NB
ELECTRICAL PROPERTIES & FLAME RETARDANCY															
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1 E14	1E14	1E14	1E14	1E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		V2/V2/V2	V2/V2/V2	V2/V2/V2	V2/V2/V2	V2/V2/V2	V2/V2/V2	V2 (1-1,6 mm)	V2/V2/V2	V2/V2/V2	V2/V2/V2	V2/V2/V2	V2/V2/V2	V2/V2/V2
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	825	825	825	825	825	825	960	825	825	825	825	825	825
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	750	750	750	750	750	750	725	725	725	725	725	725	725
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS															
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90
MOLDING TEMPERATURE		°C	225 - 260	225 - 260	225 - 260	225 - 260	225 - 260	225 - 260	260 - 280	260 - 280	260 - 280	260 - 280	260 - 280	260 - 280	260 - 280
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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poliblend™ by Ascend

REINFORCED & MODIFIED POLIMID B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	15 GB	15 GF	15 GF EST	1515 GFB	2525 GFB EST	30 GB	30 GB KW	30 GF	30 GF FD	30 GF K1	30 GF KW	30 GF KW2	40 CM KW	50 GF	50 GF K1	25 GF 30 BS EM
			PA 6 15% GLASS BEAD	PA 6 15% GLASS FIBER	PA 6 15% GLASS FIBER GLOSSY FINISH	PA 6 15% GLASS FIBER 15% GLASS BEAD	PA 6 25% GLASS FIBER 25% GLASS BEAD GLOSSY FINISH	PA 6 30% GLASS BEAD	PA 6 30% GLASS BEAD HEAT STABILIZED	PA 6 30% GLASS FIBER	PA 6 30% GLASS FIBER FDA CERTIFIED	PA 6 30% GLASS FIBER HIGH HEAT STABILIZED	PA 6 30% GLASS FIBER HEAT STABILIZED	PA 6 30% GLASS FIBER DOUBLE HEAT STABILIZATION	PA 6 40% MINERAL FILLER HEAT STABILIZED	PA 6 50% GLASS FIBER	PA 6 50% GLASS FIBER HIGH HEAT STABILIZED	PA 6 25% GLASS FIBER 30% MINERAL FILLER IMPACT RESISTANCE
DENSITY	ISO 1183	g/cm³	1,24	1,24	1,24	1,36	1,56	1,36	1,36	1,36	1,36	1,36	1,36	1,36	1,47	1,57	1,57	1,67
MELTING POINT	DSC	°C	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222	222
MOULD SHRINKAGE (average)	ISO 294-4	%	0,9 - 1,3	0,6 - 1,0	0,6 - 1,0	0,7 - 1,1	0,5 - 0,8	0,9 - 1,2	0,9 - 1,3	0,4 - 0,8	0,4 - 0,8	0,4 - 0,8	0,4 - 0,8	0,4 - 0,8	0,6 - 0,8	0,3 - 0,6	0,3 - 0,6	0,5 - 0,7
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,0 / 7,5	1,0 / 7,0	1,0 / 7,0	0,9 / 7,0	0,7 / 6,5	0,9 / 6,5	0,9 / 8,5	0,9 / 6,5	0,9 / 6,5	0,9 / 6,5	0,9 / 6,5	0,9 / 6,5	1,5 / 6,0	0,8 / 5,0	0,8 / 5,0	0,5 / 4,0
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	205	215	215	210	220	205	205	220	220	220	220	220	220	220	220	220
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	175	205	205	205	215	180	180	220	220	220	220	220	190	220	220	190
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	80	195	195	170	200	90	90	205	205	205	205	205	125	215	215	170
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	90	105	105	105	110	100	115	110	110	130	115	125	100	120	135	105
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	>165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES																		
TENSILE YIELD STRESS	ISO 527	MPa	-	-	-	-	-	-	-	-	-	-	-	-	70	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	45	115	115	100	130	70	70	175	175	175	175	175	75	220	220	130
TENSILE MODULUS	ISO 527	MPa	3500	6000	6000	6500	8500	4500	4500	9300	9300	9300	9300	9300	6000	14500	14500	9700
TENSILE YIELD STRAIN	ISO 527	%	4,5	-	-	-	-	3,5	3,5	-	-	-	-	-	3	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	7	4	4	3,5	3	4,5	4,5	2,5	2,5	2,5	2,5	2,5	7,5	2	2	2,5
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	3,5	7	7	6,5	8,5	4,5	4,5	11,5	11,5	11	11,5	11,5	5	16	16	12
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	25	35	35	40	50	35	35	80	80	80	80	80	60	110	110	65
ELECTRICAL PROPERTIES & FLAME RETARDANCY																		
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	- /HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS																		
DRYING TEMPERATURE		°C	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95
MOLDING TEMPERATURE		°C	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230- 270	230 - 270
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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PRODUCT DATA SHEETS

poliblend™ by Ascend

REINFORCED & MODIFIED POLIMID B

REINFORCED & MODIFIED POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	15 GF EM1	30 GF EM2	EM1	EM4	EM4 LT	15 GB	15 GF	1020 GFB	1515 GFB	2010 GFB	30 GB
			PA 6 15% GLASS FIBER IMPACT RESISTANCE	PA 6 30% GLASS FIBER HIGH IMPACT RESISTANCE	PA 6 IMPACT RESISTANCE	PA 6 VERY HIGH IMPACT RESISTANCE	PA 6 VERY HIGH IMPACT RESISTANCE AT LOW TEMPERATURES	PA 66 15% GLASS BEAD	PA 66 15% GLASS FIBER	PA 66 10% GLASS FIBER 20% GLASS BEAD	PA 66 15% GLASS FIBER 15% GLASS BEAD	PA 66 20% GLASS FIBER 10% GLASS BEAD	PA 66 30% GLASS BEAD
DENSITY	ISO 1183	g/cm³	1,22	1,30	1,12	1,06	1,06	1,23	1,24	1,35	1,35	1,35	1,35
MELTING POINT	DSC	°C	222	222	222	222	222	260	260	260	260	260	260
MOULD SHRINKAGE (average)	ISO 294-4	%	0,7 - 1,1	0,6 - 1,0	1,5 - 2,0	1,8 - 2,2	1,8 - 2,2	0,8 - 1,2	0,6 - 1,0	0,9 - 1,1	1,0 - 1,4	0,7 - 1,0	0,9 -1,2
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,0 / 7,0	0,8 / 5,5	1,4 / 8	1,2 / 7,5	1,2 / 7,5	1,5 / 7	1,0 / 6,5	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	1,2 / 6,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	210	210	195	180	180	240	250	250	250	250	250
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	200	205	160	140	140	230	245	235	235	235	235
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	190	195	55	50	50	100	230	220	220	220	110
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	100	105	80	75	75	110	115	110	110	110	110
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	>165	>165	>165	> 165	>165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES													
TENSILE YIELD STRESS	ISO 527	MPa	-	-	75	50	50	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	105	140	-	-	-	50	120	85	95	105	75
TENSILE MODULUS	ISO 527	MPa	5500	7000	2700	1700	1700	3800	6000	5700	6500	7000	4800
TENSILE YIELD STRAIN	ISO 527	%	-	-	6	8	8	4	-	3,5	-	-	3,5
TENSILE STRAIN AT BREAK	ISO 527	%	4,5	4	50	>100	> 50	6,5	3	4	6	3	5,5
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	11	20	12	65	65 (23 °C) 35 (-30 °C)	3,5	6,5	6	6,5	7,5	4
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	55	100	NB	NB	NB	30	35	35	40	45	35
ELECTRICAL PROPERTIES & FLAME RETARDANCY													
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	- / HB / HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR<100	BR<100	BR<100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR<100
MOLDING CONDITIONS													
DRYING TEMPERATURE		°C	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95
MOLDING TEMPERATURE		°C	230 - 270	230 - 270	230 - 260	230 - 260	230 - 260	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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REINFORCED & MODIFIED POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	30 GF PA 66 30% GLASS FIBER	30 GF FD PA 66 30% GLASS FIBER FDA CERTIFIED	30 GF K1 PA 66 30% GLASS FIBER HIGH HEAT STABILIZED	30 GF KW PA 66 30% GLASS FIBER HEAT STABILIZED	30 GF KW2 PA 66 30% GLASS FIBER DOUBLE HEAT STABILIZATION	30 GF WR PA 66 30% GLASS FIBER WRAS CERTIFIED	30 GF KWG PA 66 30% GLASS FIBER HEAT, GLYCOL & OIL STABILIZED	30 GF HWG PA 66 30% GLASS FIBER HYDROLISIS, GLYCOL & OIL STABILIZED	30 GF KWHW PA 66 30% GLASS FIBER HEAT & HYDROLISIS STABILIZED	30 GF HM PA 66 30% GLASS FIBER ECONOMICAL VERSION HIGH MODULE	30 FC PA 66 30% CARBON FIBER
DENSITY	ISO 1183	g/cm³	1,36	1,36	1,36	1,36	1,36	1,36	1,36	1,36	1,36	1,35	1,28
MELTING POINT	DSC	°C	260	260	260	260	260	260	260	260	260	260	260
MOULD SHRINKAGE (average)	ISO 294-4	%	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,3 - 0,7	0,5 - 0,8	0,15 - 0,3
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	1,0 / 4,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	255	255	255	255	255	255	255	255	255	250	255
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	255	255	255	255	255	255	255	255	255	250	250
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	240	240	240	240	240	240	240	240	240	235	245
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	115	115	140	120	135	115	145	140	120	115	120
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES													
TENSILE YIELD STRESS	ISO 527	MPa	-	-	-	-	-	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	180	180	180	180	180	180	180	180	180	150	210
TENSILE MODULUS	ISO 527	MPa	9500	9500	9500	9500	9500	9500	9500	9500	9500	8500	18500
TENSILE YIELD STRAIN	ISO 527	%	-	-	-	-	-	-	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5	3	2
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	11	11	11	11	11	11	11	11	11	10	10,5
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	75	75	75	75	75	75	70	70	75	55	60
ELECTRICAL PROPERTIES & FLAME RETARDANCY													
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	-
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E3
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		-/HB/HB	-/HB/HB	-/HB/HB	HB/HB/-	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	HB/HB/-	HB (1,6-1,8 mm)
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	-
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS													
DRYING TEMPERATURE		°C	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95
MOLDING TEMPERATURE		°C	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	270 - 290
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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REINFORCED & MODIFIED POLIMID A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	40 CM KW PA 66 40% MINERAL FILLER HEAT STABILIZED	50 GF PA 66 50% GLASS FIBER	60 GF KW EST PA 66 60% GLASS FIBER HEAT STABILIZED GLOSSY FINISH	15 GF EM1 PA 66 15% GLASS FIBER IMPACT RESISTANCE	15 GF EM2 PA 66 15% GLASS FIBER HIGH IMPACT RESISTANCE	30 GF EM1 PA 66 30% GLASS FIBER IMPACT RESISTANCE	30 GF EM2 PA 66 30% GLASS FIBER HIGH IMPACT RESISTANCE	25 GF TT/1 PA 66 25% GLASS FIBER THERMAL BREAK	EM1 PA 66 IMPACT RESISTANCE	EM4 PA 66 VERY HIGH IMPACT	EM4 LT PA 66 VERY HIGH IMPACT RESISTANCE AT LOW TEMPERATURES
DENSITY	ISO 1183	g/cm³	1,47	1,57	1,68	1,22	1,19	1,33	1,3	1,3	1,12	1,06	1,06
MELTING POINT	DSC	°C	260	260	260	260	260	260	260	260	260	260	260
MOULD SHRINKAGE (average)	ISO 294-4	%	0,7 - 0,9	0,3 - 0,5	0,3 - 0,5	0,7 - 1,1	0,8 - 1,2	0,5 - 0,9	0,7 - 1,1	0,5 - 0,9	1,4 - 1,8	2,0 - 2,4	2,0 - 2,4
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,4 / 5,5	0,5 / 4,0	0,3 / 3,0	1,0 / 6,5	1,0 / 6,5	1,0 / 5,0	1,0 / 5,0	0,7 / 6,0	0,9 / 7,5	0,8 / 6,5	0,8 / 6,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	240	255	255	245	240	250	245	245	250	240	240
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	230	260	260	240	235	250	245	240	195	170	170
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	160	255	255	220	215	245	240	230	75	60	60
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	110	130	140	105	105	110	110	110	85	80	80
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES													
TENSILE YIELD STRESS	ISO 527	MPa	-	-	-	-	-	-	-	-	70	40	40
TENSILE STRENGTH AT BREAK	ISO 527	MPa	80	225	225	110	100	135	120	135	-	-	-
TENSILE MODULUS	ISO 527	MPa	6500	15000	19000	5500	4500	8000	7000	7500	2600	1800	1750
TENSILE YIELD STRAIN	ISO 527	%	-	-	-	-	-	-	-	3	6,5	8	8
TENSILE STRAIN AT BREAK	ISO 527	%	4,5	2	1,5	4,5	5,5	3,5	4	3,5	55	> 100	> 50
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	5	16	14,5	11	12,5	15	20	8	12	65	70 (23 °C) 37 (-30 °C)
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	60	105	110	50	55	75	95	60	NB	NB	NB
ELECTRICAL PROPERTIES & FLAME RETARDANCY													
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1,00E+14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		- / HB / HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	- / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	700	700	650
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	-	-	-	-	-	-	-	-	-	-	-
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS													
DRYING TEMPERATURE		°C	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95	85 - 95
MOLDING TEMPERATURE		°C	260-290	260 - 290	260 - 290	260 - 285	260 - 285	260 - 285	260 - 285	260 - 290	260 - 285	260 - 285	255 - 280
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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PRODUCT DATA SHEETS

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			SECOMID B							SECOMID A			POLIPOM								
			NAT	FL	FL HF	30 GF	30 GF MX	30 GF MX2	EM1	BLACK FL KW	30 GF NAT/P	30 GF BLACK	100 D	20 D	C WR	C 20	C 100	C 250	C 100 25 GF	C 100 30 GB	C 100 30 GF
			PA 6 STANDARD VISCOSITY NEAR PRIME	PA 6 FROM TEXTILE RECYCLING	PA 6 FROM TEXTILE RECYCLING HIGH FLUIDITY	PA 6 30% GLASS FIBER NEAR PRIME	PA 6 30% GLASS FIBER NEAR PRIME	PA 6 30% GLASS FIBER NEAR PRIME	PA 6 IMPACT RESISTANCE	PA 66 FROM TEXTILE RECYCLING HEAT STABILIZED	PA 66 30% GLASS FIBER NEAR PRIME	PA 66 30% GLASS FIBER NEAR PRIME	POM HOMOPOLYMER MFI 10	POM HOMOPOLYMER MFI 2	POM COPOLYMER WRAS CERTIFIED	POM COPOLYMER MFI 2	POM COPOLYMER MFI 10	POM COPOLYMER MFI 25	POM COPOLYMER MFI 10 25% GLASS FIBER	POM COPOLYMER MFI 10 30% GLASS BEAD	POM COPOLYMER MFI 10 30% GLASS FIBER
PHYSICAL AND THERMAL PROPERTIES	**METHOD**	**UNIT**																			
DENSITY	ISO 1183	g/cm³	1,14	1,14	1,14	1,36	1,36	1,36	1,12	1,14	1,36	1,36	1,42	1,42	1,42	1,42	1,42	1,42	1,56	1,59	1,59
MELTING POINT	DSC	°C	222	222	222	222	222	222	222	260	260	260	175	175	166	166	166	166	166	166	166
MOULD SHRINKAGE (average)	ISO 294-4	%	1,0 - 1,4	1,4 - 1,8	1,4 - 1,8	0,4 - 0,8	0,4 - 0,8	0,4 - 0,8	1,5 - 2,0	1,3 - 1,7	0,3 - 0,7	0,3 - 0,7	1,6 - 1,9	1,8 - 2,2	1,8 - 2,2	1,8 - 2,2	1,8 - 2,2	1,8 - 2,2	0,8 - 1,0	1,2 - 1,6	0,6 - 0,9
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,5 / 9,0	1,5 / 8,5	1,5 / 8,5	0,9 / 6,5	0,9 / 6,5	0,9 / 6,5	1,5 / 7,5	1,2 / 8,5	0,7 / 6,0	0,7 / 6,0	0,2 / 0,8	0,2 / 0,8	0,2 / 0,8	0,2 / 0,8	0,2 / 0,8	0,2 / 0,8	0,3 / 0,6	0,4 / 0,7	0,2 / 0,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	205	205	205	220	220	220	200	250	250	250	165	165	165	165	165	165	165	165	165
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	165	170	165	215	215	215	160	205	245	245	165	165	165	165	165	165	165	155	165
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	65	60	65	205	205	205	60	85	235	235	115	110	105	110	105	105	160	110	160
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	80	80	80	105	105	105	80	85	110	110	80	80	80	80	80	80	85	85	85
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	< 125	< 125	< 125	< 125	< 125	< 125	< 125	< 125	< 125
MECHANICAL PROPERTIES																					
TENSILE YIELD STRESS	ISO 527	MPa	80	80	80	–	-	–	70	80	–	–	65	65	60	60	60	55	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	–	–	–	140	145	135	–	–	145	140	55	55	55	55	55	45	90	40	95
TENSILE MODULUS	ISO 527	MPa	2900	2900	2750	8000	8500	7500	2500	2950	8500	8200	3000	3000	2900	2900	2900	2800	6500	3700	7200
TENSILE YIELD STRAIN	ISO 527	%	4,5	4,5	4,5	–	–	–	4,5	4	–	–	8	10	9	11	9	8	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	30	35	25	2,5	3	2,5	50	30	2,5	2,5	30	40	30	40	30	30	2,5	2,5	2,5
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	5	5	5,5	8,5	8,5	8	11	5	9,5	9	8	12	9	11	9	8,5	6,5	4,5	7,5
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	NB	NB	NB	65	65	60	NB	NB	60	55	NB	NB	NB	NB	NB	NB	25	20	30
ELECTRICAL PROPERTIES & FLAME RETARDANCY																					
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1 E14	1 E14	1 E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		V2	V2/V2/V2	V2/V2/V2	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	V2/V2/V2	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	HB/HB/HB
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	825	825	825	650	650	650	650	825	650	650	650	650	650	650	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	-	-	-	-	-	-	-				–	–	–	–	–	–	–	–	–
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100	–	–	–	–	–	–	–	–	–
MOLDING CONDITIONS																					
DRYING TEMPERATURE		°C	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 100	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90
MOLDING TEMPERATURE		°C	235 - 265	235 - 265	235 - 265	235 - 265	235 - 265	235 - 265	235 - 265	260 - 280	260 - 280	260 - 280	190 - 210	190 - 210	190 - 210	190 - 210	190 - 210	190 - 210	190 - 210	190 - 210	190 - 210
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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PRODUCT DATA SHEETS

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POLITER B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	HF PBT NATURAL HIGH FLUIDITY	MV PBT NATURAL STANDARD VISCOSITY	HV PBT NATURAL HIGH VISCOSITY	V0 M PBT FLAME RETARDANT HALOGEN FREE	V0 A PBT FLAME RETARDANT WITH HALOGEN	20 GB PBT 20% GLASS BEAD	30 GB PBT 30% GLASS BEAD	30 GF PBT 30% GLASS FIBER	30 GF V0A PBT 30% GLASS FIBER HALOGENATED FLAME RETARDANT (PBB/PBDE FREE)	30 GF EM1 PBT 30% GLASS FIBER IMPACT RESISTANCE	30 GF EM2 LS PBT 30% GLASS FIBER HIGH IMPACT RESISTANCE LASER MARKING	50 GF PBT 50% GLASS FIBER	EM1 PBT IMPACT RESISTANCE	EM4 PBT VERY HIGH IMPACT RESISTANCE
DENSITY	ISO 1183	g/cm³	1,31	1,31	1,31	1,35	1,44	1,44	1,53	1,53	1,59	1,44	1,39	1,72	1,28	1,19
MELTING POINT	DSC	°C	225	225	225	225	225	225	225	225	225	225	225	225	225	225
MOULD SHRINKAGE (average)	ISO 294-4	%	1,6 - 2,0	1,6 - 2,0	1,6 - 2,0	1,6 - 2,0	1,6 - 2,0	1,4 - 1,8	1,3 - 1,7	0,4 - 0,8	0,4 - 0,8	0,5 - 0,9	0,7 - 1,1	0,3 - 0,6	1,7 - 2,2	2,0 - 2,4
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	0,08/0,5	0,08/0,5	0,08/0,5	0,07/0,3	0,08/0,3	0,06/0,4	0,05/0,4	0,05/0,4	0,03/0,3	0,04/0,4	0,04/0,4	0,03/0,3	0,08/0,5	0,08/0,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	185	185	185	180	165	190	195	220	215	205	205	220	175	135
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	170	170	170	165	160	175	180	220	220	210	205	225	165	105
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	60	60	60	65	65	70	80	210	205	190	185	215	55	50
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	120	120	120	115	120	130	130	130	130	130	130	130	110	100
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES																
TENSILE YIELD STRESS	ISO 527	MPa	55	55	60	45	55	-	-	-	-	-	-	-	50	40
TENSILE STRENGTH AT BREAK	ISO 527	MPa	–	–	–	40	50	50	75	125	110	105	95	165	45	35
TENSILE MODULUS	ISO 527	MPa	2400	2500	2700	2700	2900	3500	4500	9000	10000	7000	5900	14000	2100	1800
TENSILE YIELD STRAIN	ISO 527	%	4	4	4	4	3	3,5	3,5	-	-	2,5	3	-	5	6
TENSILE STRAIN AT BREAK	ISO 527	%	55	55	55	10	20	8	6,5	2	2	3	4	1,5	65	> 100
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	5,5	6	6,5	4	5	3,5	4	8	7,5	11	14	12	9,5	40
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	>100	>100	>100	35	30	30	30	60	45	75	95	70	NB	NB
ELECTRICAL PROPERTIES & FLAME RETARDANCY																
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	600	600	600	600	250	500	500	500	250	500	500	500	600	600
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		HB/HB/HB	HB/HB/HB	HB/HB/HB	V0/V0/-	V0/V0/-	HB/HB/HB	HB/HB/HB	HB/HB/HB	V0/V0/V0	HB/HB/HB	HB/HB/HB	HB/HB/HB	HB/HB/HB	HB/HB/HB
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	750	750	750	960	960	650	650	650	960	650	650	650	650	650
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	–	–	BR < 100	BR < 100	BR < 100	–	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS																
DRYING TEMPERATURE		°C	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130	100 - 130
MOLDING TEMPERATURE		°C	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260	235 - 260
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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FLAME RETARDANT POLIMID B

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	AV V0A	AV V0M	AV V2 GT96	20 GF V2M HF KW	25 GF V0A TR1	25 GF V0HFR KW	30 GF V0HFR KW	30 GF V2M HF KW	30 GF V2M KW	30 GF V0A
			PA 6 FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)	PA 6 FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE	PA 6 FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)	PA 6 20% GLASS FIBER FLAME RETARDANT, HALOGENS AND RED PHOSPHORUS FREE HIGH FLUIDITY HEAT STABILIZED	PA 6 25% GLASS FIBER, FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE) IMPROVED ELECTRICAL PROPERTIES	PA 6 PA 6 25% GLASS FIBER, FLAME RETARDANT, HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT, HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HIGH FLUIDITY HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE HEAT STABILIZED	PA 6 30% GLASS FIBER FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)
DENSITY	ISO 1183	g/cm³	1,35	1,16	1,28	1,32	1,56	1,36	1,39	1,39	1,39	1,60
MELTING POINT	DSC	°C	222	222	222	222	222	222	222	222	222	222
MOULD SHRINKAGE (average)	ISO 294-4	%	1,1 - 1,5	1,0 - 1,4	1,0 - 1,4	0,5 - 0,7	0,4 - 0,6	0,4 - 0,7	0,4 - 0,6	0,4 - 0,6	0,4 - 0,6	0,4 - 0,6
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,5 / 6,5	1,8 / 8,5	1,8 / 8,5	0,8 / 4,5	1,0 / 5,5	0,6 / 4,5	0,6 / 4,5	0,6 / 4,5	0,6 / 4,5	1,0 / 5,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	195	205	205	205	220	210	210	215	215	220
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	175	190	180	190	205	205	205	200	200	205
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	75	70	70	165	195	200	200	175	175	195
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	80	80	80	115	115	120	120	120	120	105
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES												
TENSILE YIELD STRESS	ISO 527	MPa	-	-	-	–	–	–	–	–	–	–
TENSILE STRENGTH AT BREAK	ISO 527	MPa	80	85	75	85	120	125	135	115	115	115
TENSILE MODULUS	ISO 527	MPa	3100	3200	3000	6000	8500	8500	10000	7000	7000	8000
TENSILE YIELD STRAIN	ISO 527	%	3	3	2,5	-	-	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	6,5	8	2,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	6,5	5,5	4	3,5	7	6,5	7,5	6,5	6,5	7
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	45	NB	> 100	30	45	45	50	40	40	45
ELECTRICAL PROPERTIES & FLAME RETARDANCY												
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	300	600	400	550	400	550	550	550	550	300
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		-/V0/V0	V0/V0/V0	V2 / V2 / V2	V2/V2/V2	V0/V0/V0	V0/V0/V0	V0/V0/V0	V2/V2/V2	V2/V2/V2	V0/V0/V0
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	960	960	960	960	960	960	960	850	850	960
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	725	800	850	725	825	775	800	725	725	775
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	-	-	-	-	-	-	-	-	-	-
MOLDING CONDITIONS												
DRYING TEMPERATURE		°C	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100
MOLDING TEMPERATURE		°C	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270	230 - 270
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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PRODUCT DATA SHEETS

poliblend™ by Ascend

FLAME RETARDANT POLIMID A

FLAME RETARDANT POLIMID C

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	SG V0A	SG V0M	SG EM1 V0M	SG V0A XP KW2	25 GF V0F	25 GF V0FK	25 GF V0FK KW X025	25 GF V0A TR1	25 GF V0 HFR KW	30 GF V0 HFR KW	30 GF V0A	35 GF V0FK	50 GF V0FK KW	C V0M	C V0A
			PA 66 FLAME RETARDANT WITH HALOGENS	PA 66 FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE	PA 66 FLAME RETARDANT, HALOGENS AND RED PHOSPHORUS FREE, IMPACT RESISTANCE	PA 66 FLAME RETARDANT, WITH HALOGENS, IMPACT RESISTANCE VERY GOOD HEAT STABILIZATION	PA 66 25% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS	PA 66 25% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES	PA 66 25% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES HEAT STABILIZED	PA 66 25% GLASS FIBER FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE) IMPROVED ELECTRICAL PROPERTIES	PA 66 25% GLASS FIBER, FLAME RETARDANT, HALOGENS AND RED PHOSPHORUS FREE, VERY GOOD HEAT STABILIZATION	PA 66 30% GLASS FIBER, FLAME RETARDANT, HALOGENS AND RED PHOSPHORUS FREE, VERY GOOD HEAT STABILIZATION	PA 66 30% GLASS FIBER, FLAME RETARDANT WITH HALOGENS	PA 66 35% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES	PA 66 50% GLASS FIBER FLAME RETARDANT WITH RED PHOSPHORUS IMPROVED ELECTRICAL PROPERTIES HEAT STABILIZED	PA COPOLYMER FLAME RETARDANT HALOGENS AND RED PHOSPHORUS FREE	PA COPOLYMER FLAME RETARDANT WITH HALOGENS (PBB/PBDE FREE)
DENSITY	ISO 1183	g/cm³	1,35	1,18	1,16	1,32	1,38	1,36	1,36	1,56	1,40	1,43	1,60	1,44	1,57	1,17	1,35
MELTING POINT	DSC	°C	260	260	260	260	260	260	260	260	260	260	260	260	260	245	245
MOULD SHRINKAGE (average)	ISO 294-4	%	1,3 - 1,7	1,4 - 1,8	1,6 - 2,0	1,4 - 2,2	0,4 - 0,8	0,4 - 0,8	0,4 - 0,8	0,4 - 0,6	0,4 - 0,6	0,4 - 0,6	0,4 - 0,6	0,3 - 0,6	0,2 - 0,5	0,9 - 1,3	1,2 - 1,6
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	0,9 / 5,5	0,9 / 5,5	0,9 / 5,5	0,8 / 5,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,5 / 5,5	0,5 / 4,0	0,6 / 4,0	0,5 / 4,0	0,5 / 5,0	0,5 / 5,0	1,8 / 8,5	1,8 / 8,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	240	240	235	175	250	255	255	250	250	255	255	255	255	230	215
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	195	230	220	160	245	255	255	245	255	255	255	260	260	205	185
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	80	95	85	90	230	235	235	235	240	240	245	250	255	90	75
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	110	90	85	100	110	120	120	125	120	120	110	120	130	90	95
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES																	
TENSILE YIELD STRESS	ISO 527	MPa	28	70	60	40	-	–	-	–	-	–	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	35	–	–	–	120	135	135	125	130	140	120	150	180	70	55
TENSILE MODULUS	ISO 527	MPa	3200	3600	2900	2400	7500	8000	8000	9000	9000	10500	8500	9500	13000	3600	3100
TENSILE YIELD STRAIN	ISO 527	%	2,5	3,5	4,5	3,5	-	–	-	–	-	–	-	-	–	3	2,5
TENSILE STRAIN AT BREAK	ISO 527	%	5,5	10	25	10	2,5	2,5	2,5	2,5	2,5	2,5	2	2	2	7,5	6
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	6	4,5	7,5	8,5	7,5	8,5	8,5	6,5	8	10,5	7	11,5	13,5	5	6
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	40	NB	NB	80	55	60	60	45	55	65	50	75	85	75	40
ELECTRICAL PROPERTIES & FLAME RETARDANCY																	
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	300	600	600	275	350	525	525	400	575	575	350	550	600	550	300
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1 E14
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		-/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	V0/V0/V0	-/V0/V0
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	960	960	850	960	960	960	960	960	960	960	960	960	960	960	960
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	725	825	750	775	750	750	750	850	775	750	775	825	825	750	725
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MOLDING CONDITIONS																	
DRYING TEMPERATURE		°C	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100
MOLDING TEMPERATURE		°C	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	270 - 290	230 - 270	230 - 270
MOLD TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

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PRODUCT DATA SHEETS

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PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	LUBRICATED POLIPOM LUB				LUBRICATED POLITER LUB B		LUBRICATED POLIMID LUB B						
			C 100 TF2	C 100 Y10	C 100 30 GF TF3	C 150 15 KF TF2	SI	TF4	AV / 1 Y10	AV Y10	AV Y30	30 GF Y10	30 GF Y20	30 GF Y10 V2M	30 GF TF3
			POM COPOLYMER MFI 10 PTFE LUBRICATED	POM COPOLYMER MFI 10 MOLYBDENUM DISULPHIDE LUBRICATED	POM COPOLYMER MFI 10 30% GLASS FIBER PTFE LUBRICATED	POM COPOLYMER MFI 13 ARAMIDIC FIBER AND PTFE LUBRICATED	PBT SILICON LUBRICATED	PBT PTFE LUBRICATED	PA 6 ECONOMICAL VERSION MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 STANDARD VISCOSITY MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 STANDARD VISCOSITY HIGH MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 30% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 30% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 30% GLASS FIBER FLAME RETARDANT HALOGENS AND RED PHOSPHOROUS FREE MOLYBDENUM DISULPHIDE LUBRICATED	PA 6 30% GLASS FIBER PTFE LUBRICATED
DENSITY	ISO 1183	g/cm³	1,48	1,44	1,62	1,46	1,32	1,41	1,15	1,15	1,17	1,37	1,38	1,39	1,49
MELTING POINT	DSC	°C	166	166	166	166	225	225	222	222	222	222	222	222	222
MOULD SHRINKAGE (average)	ISO 294-4	%	1,8 - 2,2	1,8 - 2,2	1,2 - 1,6	1,6 - 2,0	1,4 - 1,9	2,3 - 2,45	1,5 - 1,8	1,45 - 1,9	1,45 - 1,9	0,4-0,6	0,4 - 0,6	0,4 - 0,6	0,45 - 0,65
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	0,2 / 0,8	0,5 / 0,9	0,4 / 0,7	0,5 / 0,7	0,1 / 0,7	0,1 / 0,7	2,2 / 8,0	2,2 / 8,0	2,2 / 8,0	0,7 / 6,0	0,7 / 6,0	0,7 / 6,0	0,9 / 5,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	155	130	155	150	190	180	205	205	205	220	220	220	220
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	150	140	150	130	180	160	180	180	180	220	220	220	215
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	100	95	145	90	60	70	80	80	80	205	205	205	205
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	80	80	80	80	120	120	80	80	80	110	110	110	100
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 125	> 125	>125	>125	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES															
TENSILE YIELD STRESS	ISO 527	MPa	60	70	–	–	50	–	–	–	–	–	–	–	–
TENSILE STRENGTH AT BREAK	ISO 527	MPa	–	–	65	55	–	40	80	85	70	155	150	135	145
TENSILE MODULUS	ISO 527	MPa	3100	3200	4800	3200	2400	2300	3300	3400	3100	8500	8000	7000	8000
TENSILE YIELD STRAIN	ISO 527	%	4	6	–	2,5	4	4	5	5	4	–	–	–	–
TENSILE STRAIN AT BREAK	ISO 527	%	10	15	3	4,5	40	8	11	12	7	2,5	2	2	2
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	6	5,5	8,5	5	6	4,5	5	6	5	7,5	7	6,5	8
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	50	55	45	35	NB	45	NB	NB	NB	45	40	35	40
OTHER PROPERTIES & FLAME RETARDANCY															
COEFFICIENT OF FRICTION - STATIC	ASTM D 3702		0,20	0,16	0,31	0,18	0,26	0,14	0,31	0,29	0,25	0,39	0,36	0,43	0,30
COEFFICIENT OF FRICTION - DYNAMIC	ASTM D 3702		0,10	0,13	0,29	0,12	0,21	0,11	0,28	0,26	0,21	0,36	0,34	0,39	0,25
WEAR RATE	ASTM D 3702		2,5	1,1	4	1,5	28	5	75	72	68	34	31	38	19
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		–	–	–	–	–	–	–	–	–	–	–	V2/V2/V2	–
GLOW WIRE IGNITION TEMPERATURE GWFI / 2 mm	IEC 60695-2-12	°C	650	650	650	650	650	650	650	650	650	650	650	850	650
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	–	–	–	–	BR < 100	BR < 100	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100	BR<100
MOLDING CONDITIONS															
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	100 - 120	100 - 120	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90
MOLDING TEMPERATURE		°C	180 - 210	180 - 210	180 - 210	180 - 210	230 - 255	230 - 255	240 - 255	240 - 255	240 - 255	240 - 255	240 - 255	240 - 255	240 - 255
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80

Remarks:
NB: no breaking
: UL CERTIFICATION

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LUBRICATED POLIMID LUB A

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	SG Y10	SG Y30	SG TF4	TF4 SI KW2	30 GF Y10	30 GF TF4	30 GF TF3 V0A	50 GF Y10 KW	1515 GFM Y10 KW	30 FC TF3	30 GB TF4
			PA 66 STANDARD VISCOSITY MOLYBDENUM DISULPHIDE LUBRICATED	PA 66 INCREASED LUBRICATION WITH MOLYBDENUM DISULPHIDE	PA 66 PTFE LUBRICATED	PA 66 PTFE AND SILICON LUBRICATED VERY GOOD HEAT STABILIZATION	PA 66 30% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED	PA 66 30% GLASS FIBER PTFE LUBRICATED	PA 66 30% GLASS FIBER PTFE LUBRICATED FLAME RETARDANT WITH HALOGENS	PA 66 50% GLASS FIBER MOLYBDENUM DISULPHIDE LUBRICATED HEAT STABILIZED	PA 66 15% GLASS FIBER 15% MINERAL FILLER MOLYBDENUM DISULPHIDE LUBRICATED HEAT STABILIZED	PA 66 30% CARBON FIBER PTFE LUBRICATED	PA 66 30% GLASS BEAD PTFE LUBRICATED
DENSITY	ISO 1183	g/cm³	1,15	1,17	1,26	1,27	1,37	1,53	1,68	1,58	1,37	1,38	1,48
MELTING POINT	DSC	°C	260	260	260	260	260	260	260	260	260	260	260
MOULD SHRINKAGE (average)	ISO 294-4	%	1,4 - 1,8	1,4 - 1,8	1,2 - 1,5	1,2 - 1,5	0,45 - 0,6	0,5 - 0,7	0,3 - 0,5	0,3 - 0,6	0,6 - 0,8	0,3 - 0,5	0,5 - 0,7
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,2 / 7,0	1,2 / 7,0	1,2 / 4,5	1,2 / 4,5	0,9 / 6,5	0,9 / 6,5	0,5 / 4,0	0,5 / 3,5	1,5 / 5,0	0,7 / 4,5	0,8 / 4,5
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	235	235	245	240	255	250	250	260	250	260	245
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	230	230	245	230	250	245	250	255	230	255	240
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	85	85	100	100	245	235	240	250	205	245	235
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	90	90	105	120	110	110	110	120	110	120	105
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES													
TENSILE YIELD STRESS	ISO 527	MPa	–	–	–	–	–	–	–	–	–	–	–
TENSILE STRENGTH AT BREAK	ISO 527	MPa	75	65	70	65	150	130	120	195	90	170	70
TENSILE MODULUS	ISO 527	MPa	3300	3000	2900	2600	9000	8000	7500	13000	6800	18000	4500
TENSILE YIELD STRAIN	ISO 527	%	6	3,5	5	4,5	–	–	–	–	–	–	–
TENSILE STRAIN AT BREAK	ISO 527	%	10	6	8	6	2	2	2	2	2,5	2	2
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	4,5	3,5	3,5	3,5	8,5	8,5	7	12,5	7	9,5	6,5
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	NB	NB	40	35	55	45	25	90	45	40	30
OTHER PROPERTIES & FLAME RETARDANCY													
COEFFICIENT OF FRICTION - STATIC	ASTM D 3702		0,29	0,25	0,26	0,22	0,42	0,32	0,29	0,46	0.56	0,26	0,29
COEFFICIENT OF FRICTION - DYNAMIC	ASTM D 3702		0,26	0,22	0,22	0,18	0,36	0,25	0,27	0,39	0,45	0,2	0,22
WEAR RATE	ASTM D 3702		70	68	6,2	5,5	30	7	5	21	36	15	6,5
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E14	1E3	1E14
FLAMMABILITY 0,8 / 1,5 / 3,0 mm	UL 94		–	–	–	–	–	–	- / V0 / V0	–	–	–	–
GLOW WIRE IGNITION TEMPERATURE GWFI / 2 mm	IEC 60695-2-12	°C	650	650	650	650	650	650	960	650	650	650	650
BURNING RATE 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	-	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS													
DRYING TEMPERATURE		°C	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90	80 - 90
MOLDING TEMPERATURE		°C	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275	265 - 275
MOLD TEMPERATURE		°C	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80	70 - 80

Remarks:
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: UL CERTIFICATION

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PRODUCT DATA SHEETS

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ANTISTATIC & CONDUCTIVE POLIMID STAT B

ANTISTATIC & CONDUCTIVE POLIMID STAT A

ANTISTATIC & CONDUCTIVE POLIMID STAT C

PHYSICAL AND THERMAL PROPERTIES	METHOD	UNIT	20 FC	30 FC	40 FC	20 FC	30 FC	40 FC	1520 GFC	1010 GFC	15 FC	30 FC
			PA 6 20% CARBON FIBER	PA 6 30% CARBON FIBER	PA 6 40% CARBON FIBER	PA 66 20% CARBON FIBER	PA 66 30% CARBON FIBER	PA 66 40% CARBON FIBER	PA 66 20% CARBON FIBER 15% GLASS FIBER	PA 66 10% CARBON FIBER 10% GLASS FIBER	PA 6/66 COPOLYMER 15% CARBON FIBER	PA 6/66 COPOLYMER 30% CARBON FIBER
DENSITY	ISO 1183	g/cm³	1,22	1,27	1,31	1,22	1,28	1,31	1,35	1,25	1,19	1,28
MELTING POINT	DSC	°C	222	222	222	260	260	260	260	260	245	245
MOULD SHRINKAGE (average)	ISO 294-4	%	0,2 - 0,4	0,2 - 0,4	0,2 - 0,4	0,15 - 0,3	0,15 - 0,3	0,15 - 0,3	0,15 - 0,3	0,35 - 0,4	0,3 - 0,5	0,3 - 0,5
MOISTURE ABSORPTION (in water at 23°C) 24h/saturation	ISO 62	%	1,5 / 5,0	1,5 / 5,0	1,2 / 4,5	1,0 / 4,5	1,0 / 4,5	1,0 / 4,5	1,0 / 4,5	1,5 / 4,5	1,2 / 5,0	1,2 / 5,0
VICAT SOFTENING TEMPERATURE B 9.8 N	ISO 306	°C	210	215	220	245	255	260	255	250	240	240
HEAT DEFLECTION TEMPERATURE 0.45 MPa	ISO 75-2	°C	210	215	220	245	250	255	255	245	240	240
HEAT DEFLECTION TEMPERATURE 1.81 MPa	ISO 75-2	°C	205	210	215	240	245	250	245	240	235	240
CONTINUOUS SERVICE TEMPERATURE (without load, 20,000 hours)	IEC 60216	°C	110	110	110	120	120	120	120	110	115	115
HEAT RESISTANCE / BALL PRESSURE TEST	IEC 60695-10-2	°C	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165	> 165
MECHANICAL PROPERTIES												
TENSILE YIELD STRESS	ISO 527	MPa	-	-	-	-	-	-	-	-	-	-
TENSILE STRENGTH AT BREAK	ISO 527	MPa	165	200	225	170	210	230	150	120	155	205
TENSILE MODULUS	ISO 527	MPa	13000	17000	21000	14000	18500	23000	12000	9000	10500	17500
TENSILE YIELD STRAIN	ISO 527	%	-	-	-	-	-	-	-	-	-	-
TENSILE STRAIN AT BREAK	ISO 527	%	1,5	1,5	1	1,5	1,5	1	1,5	1,5	1,5	1,5
NOTCHED IZOD IMPACT STRENGHT	ISO 180/A	KJ/m²	6,5	7,5	8,5	7	10,5	11	8	6,5	6,5	9
UNNOTCHED IZOD IMPACT STRENGHT	ISO 180/U	KJ/m²	45	50	55	45	60	65	40	35	40	55
ELECTRICAL PROPERTIES & FLAME RETARDANCY												
COMPARATIVE TRACKING INDEX (CTI)	IEC 60112	V	–	–	-	–	–	–	–	–	-	-
VOLUME RESISTIVITY	IEC 60093	Ohm*cm	1E3	1E3	1E2	1E3	1E3	1E2	1E3	1E4	1E3	1 E3
FLAMMABILITY RATING 0.8 mm / 1.5 mm / 3.0 mm	UL 94		-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	-/HB/HB	- / HB / HB
GLOW WIRE FLAMMABILITY INDEX (GWFI) / 2 mm	IEC 60695-2-12	°C	–	–	–	–	–	–	–	–	–	–
GLOW WIRE IGNITION TEMPERATURE (GWIT) / 2 mm	IEC 60695-2-13	°C	–	–	–	–	–	–	–	–	–	–
BURNING RATING 350 X 100 X 1 mm	FMVSS 302 ISO 3795	mm/min	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100	BR < 100
MOLDING CONDITIONS												
DRYING TEMPERATURE		°C	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100	90 - 100
MOLDING TEMPERATURE		°C	240 - 270	240 - 270	240 - 270	260 - 290	260 - 290	260 - 290	260 - 290	260 - 290	250 - 280	250 - 280
MOLD TEMPERATURE		°C	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90	70 - 90

Remarks:
NB: no breaking
: UL CERTIFICATION

The information contained in this document are provided in good faith and purely for indicative purpose only. The values, referred to DAM specimen (Dry As Molded, molded and conditioned 40h - 23 °C - 50% R.H.) are to be assessed carefully with our Technical Assistance Service depending on the project needs. The products are not suitable for food applications unless otherwise specified. The above data must not be considered in any case as a contractual commitment or warranty by Poliblend, especially in case of incorrect use of our products by third parties.