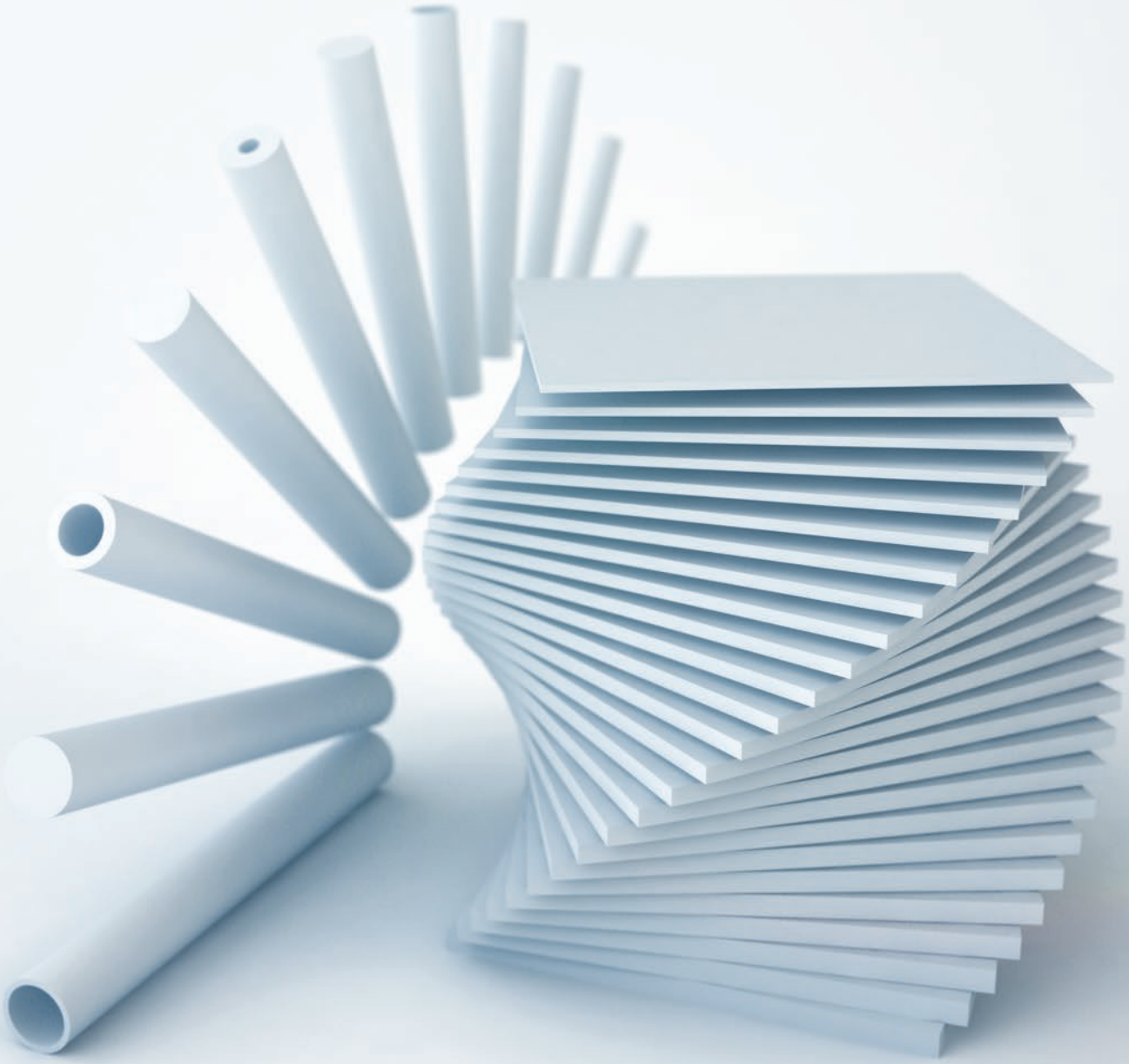
ZELL MATERIALS
ENGINEERING PLASTICS



ZELLAMID®

ENGINEERING PLASTIC STOCK SHAPES

EN

ZELLAMID®

THE BEST CHOICE FOR YOUR
DEMANDING APPLICATIONS

Established in 1949 as a bronze foundry Zell Materials has been manufacturing superior-class plastic stock shapes for the machining and fabricating industry since 1955. Being part of the Klepsch Group, we generate more than USD 350 million in worldwide sales and employ over 1,000 people globally.

Our manufacturing technology is continuously improved in-house and together with our sister companies in the Klepsch Group. Over six decades of constantly building and enhancing our extrusion and cast know-how allows us to supply you with virtually center-porosity- and stress-free product in a variety of formulations to cover your demanding needs.

We work hard to earn your business providing you with technical expertise, application knowledge and second to none customer service. Our dedicated team of professional and well-trained experts is here for you to cater to your requirements.

ZELLAMID® stock shapes come in the form of rods, plates and tubular bars which are easy to machine and will give you dimensional stable parts. Using our **ZELLAMID®** Nylons, Acetals, PETs, PEEKs and others will give you the performance you expect from your supplier and its products.

 Drilling  Turning  Sawing  Milling

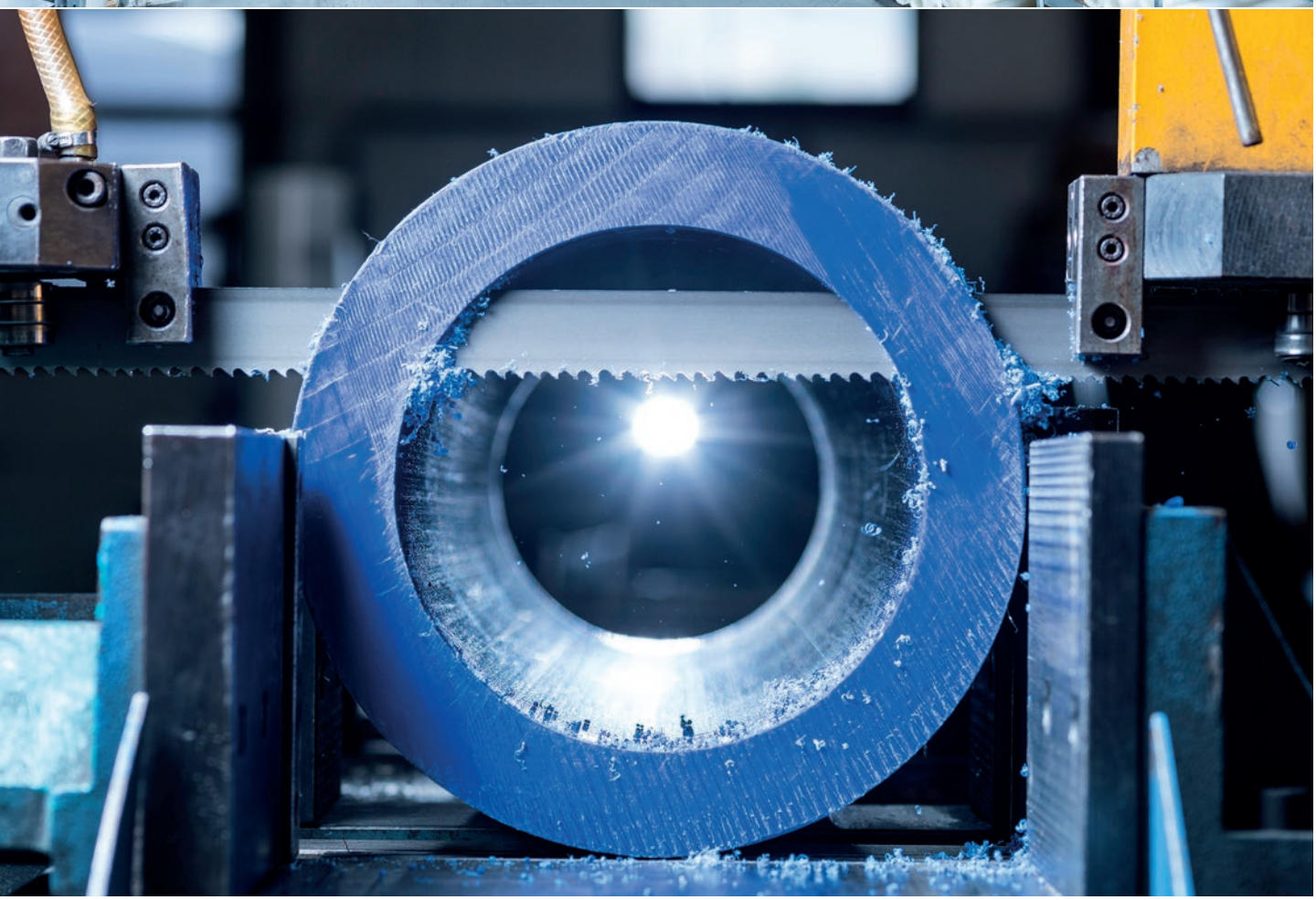
ZELLAMID® | 3Ps, SPMs and HPMs

General Purpose Materials are also known as the 3Ps (Polyamide, POM and thermoplastic Polyester). In general these are unfilled polymers.

Special Performance Plastics, also known as SPMs are innovative materials tailored for specific needs, by blending polymers, adding fillers and using break-through technologies in order to advance the performance of general purpose Engineering Plastics.

High Performance Materials, also known as HPMs, are materials which have a temperature resistance of more than 150 °C and in general very similar properties over a broad range of temperatures and chemical environments.

If you buy **ZELLAMID®** stock shapes, you will purchase engineering plastic products of the highest quality anywhere. Working with us gives you peace of mind and will make your customers happy!



ZELLAMID® Designation	Product description	Product colour	Density g/cm³	Temperature Air °C[1]
PA 6 – Polyamid 6 extruded				
ZELLAMID® 202 NA / SW	PA 6 unfilled	natural, black	1,13	-40 – 100
ZELLAMID® 202 MO	PA 6 + MoS_2	black	1,15	-40 – 90
ZELLAMID® 202 HV	PA 6 high viscosity	natural	1,13	-30 – 100
ZELLAMID® 202 IM	PA 6 impact modified	natural	1,08	-30 – 100
ZELLAMID® 202 GF30	PA 6 + 30 % Glass fibre	black	1,22	-30 – 100
PA 6 C – Cast Nylon Products				
ZELLAMID® 1100 NA / SW	PA 6 C unfilled	natural, black	1,15	-40 – 105
ZELLAMID® 1100 Oil	PA 6 C Oil	white, yellow, green, black	1,14	-40 – 105
ZELLAMID® 1100 MO	PA 6 C + MoS_2	black	1,15	-40 – 105
ZELLAMID® 1100 T	PA 6 C Tribotype	grey	1,14	-40 – 105
ZELLAMID® 1100 FR	PA 6 C flame retardent	black	1,15	-40 – 105
ZELLAMID® 1100 BLUE	PA 6 C	blue	1,15	-40 – 105
ZELLAMID® 1100 HS	PA 6 C heat stabilized	black	1,15	-40 – 105
ZELLAMID® 1115 NA	PA 6/12 C high impact	natural	1,13	-40 – 105
ZELLAMID® 1200 NA	PA 12 C	natural	1,03	-60 – 110
PA 6.6 – Polyamid 6.6				
ZELLAMID® 250 NA / SW	PA 6.6 unfilled	ivory, black	1,14	-30 – 100
ZELLAMID® 250 MO	PA 6.6 + MoS_2	anthracite	1,15	-30 – 90
ZELLAMID® 250 GF30	PA 6.6 + 30 % Glass fibre	black	1,35	-20 – 150
ZELLAMID® 250 PE	PA 6.6 + PE Tribotype	light green	1,12	-30 – 90
ZELLAMID® 250 HV	PA 6.6 high impact	natural	1,09	-30 – 100
PE – Polyethylene				
ZELLAMID® 665 NA / SW / GR	Polyethylene 500 (HMW) unfilled	natural, black, green	0,96	-100 – 80
ZELLAMID® 675 NA / SW / GR	Polyethylene 1000 (UHMW) unfilled	natural, black, green	0,94	-200 – 80
POM – Polyoxymethylene				
ZELLAMID® 900 NA / SW	POM-C unfilled	natural, black	1,41	-50 – 100
ZELLAMID® 900 BLUE	POM-C RAL 5002	blue	1,42	-50 – 100
ZELLAMID® 900 Special colours	POM-C unfilled	on request	1,42	-40 – 100
ZELLAMID® 900 PE	POM-C + PE Tribotype	light blue	1,34	-50 – 80
ZELLAMID® 900 GF30	POM-C + 30 % Glass fibre	natural	1,58	-20 – 100
ZELLAMID® 900 AS	POM-C antistatic	white	1,35	-50 – 90
ZELLAMID® 900 AS SW	POM-C antistatic	black	1,35	-50 – 90
ZELLAMID® 900 ELS	POM-C ELS conductive	black	1,41	-40 – 80
ZELLAMID® 900 XT	POM-C + PTFE Tribotype	grey	1,44	-40 – 100
ZELLAMID® 900 H	POM-H unfilled	natural	1,42	-40 – 100
PET – Thermoplastic Polyester				
ZELLAMID® 1400 NA / SW	PET unfilled	natural, black	1,36	-20 – 100
ZELLAMID® 1400 T	PET Tribotype	light grey	1,39	-20 – 110
PEI – Polyetherimide				
ZELLAMID® 1000 NA / SW	PEI unfilled	amber, black	1,27	-50 – 170
ZELLAMID® 1000 GF30	PEI + 30 % Glass fibre	brown	1,51	-50 – 170
PVDF – Polyvinylidene fluoride				
ZELLAMID® 1700 NA	PVDF unfilled	natural	1,78	-50 – 150
PTFE – Polytetrafluoroethylene				
ZELLAMID® 1800 NA	PTFE unfilled	white	2,13 – 2,20	-200 – 250
PPS – Polyphenylene sulfide				
ZELLAMID® 1900 NA	PPS unfilled	natural	1,35	-50 – 220
ZELLAMID® 1900 GF40	PPS + 40 % Glass fibre	black	1,64	-50 – 220
ZELLAMID® 1900 IM	PPS impact modified	black	1,90	-50 – 220
ZELLAMID® 1900 T	PPS Tribotype	blue	1,61	-50 – 220
PEEK – Polyetheretherketone				
ZELLAMID® 1500 X / XSW	PEEK unfilled	brown, black	1,30	-60 – 260
ZELLAMID® 1500 XC20	PEEK + 20 % Ceramic	white	1,49	-60 – 260
ZELLAMID® 1500 XCA30	PEEK + 30 % Carbon fibre	anthracite	1,40	-20 – 260
ZELLAMID® 1500 XGF30	PEEK + 30 % Glass fibre	brown	1,51	-20 – 260
ZELLAMID® 1500 XT	PEEK modified Tribotype	black	1,45	-30 – 260
ZELLAMID® 1500 XTW	PEEK PFAS-free Tribotype	black	1,44	-60 – 260
ZELLAMID® 1500 XCT2	PEEK cryogenic	green	1,43	-196 – 260
ZELLAMID® 1500 XMG	PEEK medical-grade	brown	1,30	-60 – 260

[1] Values for orientation

Dimensional stability	Food contact	Wear resistance	Coefficient of friction	Chemical resistance	Rods in mm	Tubes in mm	Plates in mm
PA 6 – Polyamid 6 extruded							
medium	high	medium	high	high	6 – 300	25 – 310	1 – 110
medium	low	high	high	medium	6 – 100	25 – 310	1,5 – 110
medium	high	medium	high	high	6 – 300	25 – 310	8 – 110
medium	high	medium	high	high	6 – 300	25 – 310	8 – 110
medium	low	high	low	medium	10 – 150	on request	10 – 60
PA 6 C – Cast Nylon Products							
medium	low	high	high	high	20 – 800	50 – 1000	8 – 165
medium	low	high	high	high	20 – 800	50 – 1000	8 – 165
medium	low	high	high	high	80 – 800	50 – 1000	8 – 100
medium	low	high	high	high	80 – 800	50 – 1000	8 – 165
medium	low	high	high	high	20 – 800	50 – 1000	8 – 165
medium	low	high	high	high	20 – 800	50 – 1000	8 – 165
medium	low	high	high	high	20 – 800	50 – 1000	8 – 165
medium	low	high	high	high	80 – 800	50 – 880	8 – 165
medium	high	high	high	high	20 – 230	20 – 250	8 – 60
PA 6.6 – Polyamid 6.6							
medium	high	medium	high	high	6 – 150	25 – 265	5 – 60
medium	low	high	high	high	6 – 100	25 – 265	5 – 60
high	low	high	medium	high	6 – 160	---	5 – 100
medium	high	high	high	high	6 – 150	---	5 – 60
medium	high	high	high	high	6 – 150	---	---
PE – Polyethylene							
low	high	medium	medium	high	---	---	10 – 150
low	high	very high	very high	high	20 – 300	---	10 – 150
POM – Polyoxymethylene							
high	high	low	high	high	6 – 500	25 – 500	0,5 – 150
high	high	low	high	high	6 – 500	25 – 500	0,5 – 150
high	high	high	high	high	on request	on request	on request
medium	high	high	high	high	6 – 150	---	8 – 100
high	low	high	high	high	16 – 150	---	2 – 60
high	high	medium	medium	high	6 – 160	---	8 – 50
high	high	medium	medium	high	6 – 160	---	8 – 50
high	low	medium	medium	high	6 – 150	---	8 – 50
high	high	high	high	high	6 – 150	---	8 – 50
high	medium	medium	medium	medium	6 – 150	on request	8 – 100
PET – Thermoplastic Polyester							
high	high	medium	high	high	6 – 200	25 – 210	3 – 100
high	high	high	high	high	6 – 160	25 – 210	8 – 100
PEI – Polyetherimide							
high	high	high	medium	high	6 – 150	---	6 – 100
very high	low	high	medium	high	6 – 50	---	on request
PVDF – Polyvinylidene fluoride							
medium	high	medium	medium	high	10 – 40	---	10 – 20
PTFE – Polytetrafluoroethylene							
medium	high	low	high	high	10 – 100	---	10 – 80
PPS – Polyphenylene sulfide							
high	medium	medium	medium	high	6 – 40	---	6 – 25
very high	low	high	low	high	6 – 40	---	6 – 25
very high	low	medium	medium	high	6 – 40	---	6 – 25
high	low	very high	very high	high	6 – 40	---	6 – 25
PEEK – Polyetheretherketone							
very high	high	medium	medium	high	5 – 160	50 – 160	3 – 100
very high	high	high	medium	high	8 – 90	---	10 – 50
very high	low	high	medium	high	6 – 80	---	5 – 60
very high	low	high	medium	high	6 – 100	---	5 – 80
very high	low	high	high	high	6 – 100	on request	5 – 80
very high	medium	very high	very high	high	on request	---	5 – 20
very high	medium	very high	high	high	5 – 160	---	5 – 80
very high	high	medium	medium	high	5 – 160	---	5 – 100

KLEPSCHGROUP
THE NETWORK FOR PLASTICS TECHNOLOGY

SENOPLAST · senosan · seletec · seno SPEZIALMASCHINEN Sondermaschinen- und Stahlbau · senova

ZELL MATERIALS ENGINEERING PLASTICS · ZELL PARTS by KLEPSCH · TECNOPLAST ENGINEERING PLASTICS · ZL ENGINEERING PLASTICS · EXPERTA

ZELL MATERIALS
ENGINEERING PLASTICS

The **COMPLETE CATALOG** is available
for download on our website:
ZELLMATERIALS.com/en/support/downloads

ZELL MATERIALS GMBH
Engineering Plastics

Schulstrasse 16
5710 Kaprun, Austria

T +43 6547 8417
F +43 6547 8890

office@zellmaterials.com
ZELLMATERIALS.com