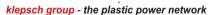
ZELL MATERIALS GMBH

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Technical Properties of: ZELLAMID® 202 GF30 (PA6)						
Edition / Date: 1/					22.08.2025	
Characteristics		Unit	Test method	Condition of specimen	Value	
MECHANICAL PROPERTIES						
Yield stress	23°C	MPa	ISO 527		120	
Tensile strength	23 °C	MPa	ISO 527		120	
Elongation at break	23°C	%	ISO 527		8,0	
Tensile E-Modulus		MPa	ISO 527		6500	
Bending Modulus		MPa	ISO 178			
lexural Strength		MPa	ISO 178			
Charpy impact strength	23 °C	kJ/m²	ISO 179/1eU			
Charpy Notched Impact Strength	23 °C	kJ/m²	ISO 179/1eA			
Shore D hardness			ISO 868		87	
Ball Hardness		MPa	ISO 2039-1			
Compressive modulus		MPa	ISO 604			
Compressive Stress	1%/2%/5% Nominal Strain	MPa	ISO 604			
THERMAL PROPERTIES			<u> </u>			
HDT-A	1,82 MPa	°C	ISO 75			
Glass Transition Temperature		°C	ISO 3146			
Melting Temperature		°C	ISO 3146		220	
Maximum Service Temperature for Few Hours Operation		°C	-			
ervice temperature long term		°C	-		100	
Minimum service temperature		°C	-		-30	
Specific Heat Capacity		J/(g.K)	IEC 1006	dry		
Coefficient of thermal expansion		1/K10^(-5)	DIN 53752			
Thermal Conductivity	Method A	W/(K.m)	-	dry		
DIELECTRIC PROPERTIES						
Dielectric Constant	1 MHz		IEC 60250			
Dissipation Factor Tan δ	1 MHz		IEC 60250			
Dielectric Strength		KV/mm	IEC 60243			
/olume Resistivity	7	Ω.cm	IEC 60093			
Surface Resistivity		Ω	IEC 60093		>1013	
Resistance to Tracking (CTI)			IEC 60112			
PHYSICAL PROPERTIES						
Density	23°C	g/cm³	ISO 1183-1		1,35	
BURNING BEHAVIOUR		•				
Flammability classification*			UL 94			
GENERAL						
	23°C	%	100.00			
Vater Absorption	23°C, saturation 23°C / 50% RH	%	ISO 62			
Food contact	23°C / 50% RH -	70	ISO 62			
ood contact	-		FDA		<u> </u>	
Food contact approval			EU 10/2011			
Dimensional Stability			-		+	
Coefficient of Friction			-		0	
Vear Resistance			-		+	
RESISTANCE						
Chemical Resistance		um/km	- ISO 7148 2	trocken	+	
Verschleißrate		μm/km	ISO 7148-2	trocken		

Resistance to wear tested by a pin / rotating disc test according DIN ISO 7148-2 under following conditions: Ra = $0.35 - 0.45 \, \mu m$ (steel disc), $v = 0.3 \, m/s$, $p = 3 \, N/mm^2$, time T > $16 \, h$

Explanation Symbols: + good 0 neutral - not good / actually not available Tests are done under dry conditions at room temperature

All statements, technical information and recommendations contained in this data sheet are presented in good faith, but all information given is without warranty and liability. Properties of the delivered products can verify because of differences to the testing samples. Non-tested values are fulfilled with raw material datas and literature information. The reader is cautioned, however that

Zell-Metall cannot guarantee the accuracy or completeness of this information, and it is the customer's responsibility to determine the suitability of Zell-Metall products in any given application.

PLEASE RECONFIRM THE DATA SHEET BEFORE USE WITH ZELL MATERIALS, qm@zellamid.com