

Technical Properties of:		<b>ZELLAMID® 202 GF30 (PA6)</b>			
Edition / Date:		1/ 22.08.2025			
Characteristics		Unit	Test method	Condition of specimen	Value
<b>MECHANICAL PROPERTIES</b>					
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		---
Flexural 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		---
<b>THERMAL PROPERTIES</b>					
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	-		---
Service 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 <sup>-5</sup>	DIN 53752		---
Thermal Conductivity	Method A	W/(K.m)	-	dry	---
<b>DIELECTRIC PROPERTIES</b>					
Dielectric Constant	1 MHz		IEC 60250		---
Dissipation Factor Tan δ	1 MHz		IEC 60250		---
Dielectric Strength		kV/mm	IEC 60243		---
Volume Resistivity		Ω.cm	IEC 60093		---
Surface Resistivity		Ω	IEC 60093		>10 <sup>13</sup>
Resistance to Tracking (CTI)			IEC 60112		---
<b>PHYSICAL PROPERTIES</b>					
Density	23°C	g/cm³	ISO 1183-1		1,35
<b>BURNING BEHAVIOUR</b>					
Flammability classification*			UL 94		---
<b>GENERAL</b>					
Water Absorption	23°C, saturation	%	ISO 62		---
	23°C / 50% RH	%	ISO 62		---
Food contact	-		-		-
Food contact approval			FDA		-
			EU 10/2011		-
Dimensional Stability			-		+
Coefficient of Friction			-		o
Wear Resistance			-		+
<b>RESISTANCE</b>					
Chemical Resistance			-		+
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 µm (steel disc), v = 0.3 m/s, p = 3 N/mm², 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](mailto:qm@zellamid.com)