

## Zell-Metall Engineering Plastics Zellamid 1500T (PEEK modified)

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

### Material Notes:

Zellamid® 1500 (Polyetheretherketone - PEEK, natural) is the registered trademark for Zell-Metall's semi-crystalline high performance thermoplastic which exhibits a unique combination of high mechanical properties, temperature resistance and excellent chemical resistance, making it the most popular advanced plastics material. Fields: Nuclear and Vacuum Technology, Aerospace Industry, Mechanical and Automotive Engineering, Conveyer Technology, Semiconductor Production, Electrical and Electronics, Wire and Cable, Oil Exploration, Chemical Processing Industry. Besides of the standard grade for tribological applications also our Zellamid® 1500 T grade is available in black color, modified with 10% Carbonfibre, 10% PTFE and 10% Graphite. Zellamid® 1500 T has an outstanding wear resistance and an even lower coefficient of friction as well as higher Pressure-Velocity capabilities.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zell-Metall-Engineering-Plastics-Zellamid-1500T-PEEK-modified.php](http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-1500T-PEEK-modified.php)

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	141 MPa	20500 psi	ISO 527; DIN 53455
Elongation at Break	2.0 %	2.0 %	ISO 527; DIN 53455
Tensile Modulus	9.00 GPa	1310 ksi	ISO 527; DIN 53452

Thermal Properties	Metric	English	Comments
CTE, linear	22.0 µm/m-°C	12.2 µin/in-°F	DIN 53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft <sup>2</sup> -°F	DIN 53612 Method A
Melting Point	340 °C	644 °F	ISO 1218 Method A; DIN 53736
Maximum Service Temperature, Air	260 °C	500 °F	5000 hours; 50% Tensile Strength; IEC 216; DIN 53446
	300 °C	572 °F	a few hours operation
Deflection Temperature at 1.8 MPa (264 psi)	293 °C	559 °F	ISO 75; DIN 53461
Flammability, UL94	V-0	V-0	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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