Zell-Metall Engineering Plastics Zellamid 250 GF 30 (PA6.6 + 30% glass fiber)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Zellamid® 250 GF 30 (PA 6.6 + 30% Glassfibre, black) is the registered trademark for Zell-Metall's 30% glass fiber reinforced nylon grade 6.6. It offers increased strength, stiffness, creep resistance and dimensional stability whilst retaining good wear resistance. It also allows higher max. service temperatures.Fields: Transport and Conveyer Technology, Mechanical and Automotive Engineering, Precision Engineering, Processing Machinery.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-250-GF-30-PA66-30-glass-fiber.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in³	
Moisture Absorption at Equilibrium	1.5 %	1.5 %	Saturation at 50% RH; ISO 1110; DIN 53714
Water Absorption at Saturation	5.5 %	5.5 %	23°C; ISO 62; DIN 53495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	175 MPa	25400 psi	H 358/30; ISO 2039; DIN 53456
Tensile Strength at Break	160 MPa	23200 psi	ISO 527; DIN 53455
Elongation at Break	3.0 %	3.0 %	ISO 527; DIN 53455
Tensile Modulus	11.0 GPa	1600 ksi	ISO 527; DIN 53452
Charpy Impact, Notched	5.00 J/cm²	23.8 ft-lb/in²	double V-notch, rk=1.5 mm; DIN 53753

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 - 30.0 µm/m-°C @Temperature 20.0 °C	11.1 - 16.7 µin/in-°F @Temperature 68.0 °F	DIN 53752
Specific Heat Capacity	1.50 J/g-°C	0.359 BTU/lb-°F	DIN 52612
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft²-°F	DIN 53612 Method A
Melting Point	255 °C	491 °F	ISO 1218 Method A; DIN 53736
Maximum Service Temperature, Air	200 °C	392 °F	a few hours operation
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	ISO 75; DIN 53461
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	ISO 75; DIN 53461

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	

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