

Zell-Metall Engineering Plastics Zellamid 250 (PA6.6) at 50% RH

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Zellamid® 250 is noted for its high temperature resistance and high tensile strength. It is the hardest and most rigid type of extruded Nylon.

Main characteristics are high resistance to fuels, oils, greases, most organic solvents and alkalis. Moisture absorption is lower than for Nylon 6. Typical applications are friction bearings, gears, cams and cam followers, guides, sleeves, valve seats and articles subjected to high loads and/or for high temperature.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-250-PA66-at-50-RH.php

Physical Properties	Metric	English	Comments
Density	1.13 - 1.15 g/cc	0.0408 - 0.0415 lb/in³	Dry Density
Moisture Absorption at Equilibrium	2.5 - 3.1 %	2.5 - 3.1 %	Saturation at 50% RH; ISO 1110; DIN 53714
Water Absorption at Saturation	8.0 - 9.0 %	8.0 - 9.0 %	23°C; ISO 62; DIN 53495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	100 MPa	14500 psi	H 358/30; ISO 2039; DIN 53456
Tensile Strength at Break	60.0 MPa	8700 psi	ISO 527; DIN 53455
Elongation at Break	150 %	150 %	ISO 527; DIN 53455
Tensile Modulus	1.60 GPa	232 ksi	ISO 527; DIN 53452
Charpy Impact, Notched	NB	NB	double V-notch, rk=1.5 mm; DIN 53753
Tensile Creep Modulus, 1000 hours	400 MPa	58000 psi	23°C; ISO 899; DIN 53444

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	ISO 1218 Method A; DIN 53736
Maximum Service Temperature, Air	80.0 °C	176 °F	20,000 hours; 50% Tensile Strength; IEC 216; DIN 53446
	95.0 °C	203 °F	5000 hours; 50% Tensile Strength; IEC 216; DIN 53446
	<= 200 °C	<= 392 °F	a few hours operation
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	<= 100 mm/min	<= 3.94 in/min	FMVSS - 302 flame propagation rate;

Flame Spread Thermal Properties	Metric	English	DIN 75200 Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 167; DIN 53482
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 167; DIN 53482
Dielectric Constant	5.0	5.0	IEC 250; DIN 53483
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	80.0 kV/mm	2030 kV/in	IEC 243; VDE 0303T2
Dissipation Factor	0.20	0.20	IEC 250; DIN 53483
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	KB Method; IEC 112; DIN 53480
	>= 600 V	>= 600 V	KC Method; IEC 112; VDE 0303T1

Descriptive Properties	Value	Comments
Time yield limit	6 MPa	23°C, s1/1000; ISO.899 DIN.53444

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China