

Zell-Metall Engineering Plastics Zellamid 202 (PA 6) at 50% RH

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Impact Grade

Material Notes:

Zellamid® 202 is a tough material with high resistance to abrasion and impact. It features good mechanical properties. By water absorption the excellent shock and vibration resistance is increased. Mechanical, electrical and dimensional properties are accordingly influenced by moisture absorption. These important characteristics add up to impressive cost / performance ratios. Typical applications for Zellamid® 202 are ball bearing races, friction bearings, pulleys, sheeves, gears, slipper blocks, vibration dampeners and absorbers, bowling pin setters, scrapers and many more.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-202-PA-6-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	2.6 - 3.4 %	2.6 - 3.4 %	Saturation at 50% RH; ISO 1110; DIN 53714
Water Absorption at Saturation	9.0 - 10 %	9.0 - 10 %	23°C; ISO 62; DIN 53495

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	H 358/30; ISO 2039; DIN 53456
Tensile Strength at Break	50.0 MPa	7250 psi	ISO 527; DIN 53455
Elongation at Break	200 %	200 %	ISO 527; DIN 53455
Tensile Modulus	1.50 GPa	218 ksi	ISO 527; DIN 53452
Charpy Impact, Notched	NB	NB	double V-notch, rk=1.5 mm; DIN 53753
Tensile Creep Modulus, 1000 hours	230 MPa	33400 psi	23°C; ISO 899; DIN 53444

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 1218 Method A; DIN 53736
Maximum Service Temperature, Air	75.0 °C	167 °F	20,000 hours; 50% Tensile Strength; IEC 216; DIN 53446
	90.0 °C	194 °F	5000 hours; 50% Tensile Strength; IEC 216; DIN 53446
	<= 180 °C	<= 356 °F	a few hours operation
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	

Thermal Properties	Metric	English	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	7.0	7.0	IEC 250; DIN 53483
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	60.0 kV/mm	1520 kV/in	IEC 243; VDE 0303T2
Dissipation Factor	0.30	0.30	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	5.5 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