

Zell-Metall Engineering Plastics Zellamid 1115

Category : Polymer , Thermoplastic , Nylon , Nylon 612 , Nylon 612, Unreinforced

Material Notes:

By special additives, impact strength and abrasion resistance are further improved. We particularly recommend this material for slipper pads for rolling mills. Color: Ivory Applications: slipper pads for rolling mills.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-1115.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	
Moisture Absorption at Equilibrium	2.5 - 3.0 %	2.5 - 3.0 %	Saturation at 50% RH
Water Absorption at Saturation	6.0 - 7.0 %	6.0 - 7.0 %	23°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	80 - 82	80 - 82	DIN 53505
Ball Indentation Hardness	142 MPa	20600 psi	DIN 53456
Tensile Strength at Break	78.0 - 80.0 MPa	11300 - 11600 psi	DIN 53455
Elongation at Break	40 - 100 %	40 - 100 %	DIN 53455
Tensile Modulus	3.10 GPa	450 ksi	DIN 53457
	0.600 - 0.800 GPa	87.0 - 116 ksi	DIN 53457
	@Temperature 100 °C	@Temperature 212 °F	
Charpy Impact Unnotched	NB	NB	DIN 53453
Charpy Impact, Notched	3.50 - 4.50 J/cm ²	16.7 - 21.4 ft-lb/in ²	DIN 53453
Coefficient of Friction	0.050 - 0.10	0.050 - 0.10	to steel, added lubrication
	0.30 - 0.35	0.30 - 0.35	to steel, no lubrication; ISO/DTR 7147
Abrasion	62	62	mm ³ ; DIN 53516

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 μm/m-°C	44.4 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.67 J/g-°C	0.399 BTU/lb-°F	
Thermal Conductivity	0.280 W/m-K	1.94 BTU-in/hr-ft ² -°F	DIN 52612

Thermal Properties	Metric	English	Comments
Melting Point	200 °C	392 °F	
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long time operation
	120 - 140 °C	248 - 284 °F	medium time operation
	160 °C	320 °F	a few hours operation
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flammability, UL94	HB	HB	

Descriptive Properties	Value	Comments
Permissible Unit Pressure	25 - 30 MPa	
Time yield limit	up to 4	s1/1000; DIN.53444

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