

Zell-Metall Engineering Plastics Zellamid 1200 G

Category : Polymer , Thermoplastic , Nylon , Nylon 12 , Nylon 12, Cast

Material Notes:

Zellamid® 1200 G is manufactured by an activated anionic reaction. Finished and semi-finished parts are produced by a static cast process. This process makes it possible to produce a material with high molecular weight, high crystallinity and very low inner stress level. Zellamid® 1200 G is showing significant low moisture absorption, superior dimensional stability combined with high impact strength even at low temperatures and an excellent chemical resistance. Zellamid® 1200 G is the ideal longterm solution for bushes, bearings, rollers and gear wheels subjected to high load and wear demanding for dimensional stability particularly when exposed to high humidity and water.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-1200-G.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	
Moisture Absorption at Equilibrium	0.90 %	0.90 %	Saturation at 50% RH
Water Absorption at Saturation	1.4 %	1.4 %	23°C

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	75 - 80	75 - 80	DIN 53505
Ball Indentation Hardness	100 MPa	14500 psi	DIN 53456
Tensile Strength at Break	60.0 MPa	8700 psi	DIN 53455
Elongation at Break	55 %	55 %	DIN 53455
Tensile Modulus	2.20 GPa	319 ksi	DIN 53457
Charpy Impact Unnotched	NB	NB	DIN 53453
Charpy Impact, Notched	15.0 J/cm ²	71.4 ft-lb/in ²	DIN 53453
Coefficient of Friction	0.050 - 0.10	0.050 - 0.10	to steel, added lubrication
	0.40	0.40	to steel, no lubrication; ISO/DTR 7147

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft ² -°F	DIN 52612

Melting Point Thermal Properties	190 °C Metric	374 °F English	Comments
Maximum Service Temperature, Air	110 °C	230 °F	long time operation
	130 °C	266 °F	medium time operation
	150 °C	302 °F	a few hours operation
Minimum Service Temperature, Air	-60.0 °C	-76.0 °F	
Flammability, UL94	HB	HB	

Descriptive Properties	Value	Comments
Permissible Unit Pressure	18 - 23 MPa	
Time yield limit	bis 11	s1/1000; DIN.53444

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