

## Zell-Metall Engineering Plastics Zellamid 1200 G at 50% RH

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-at-50-RH.php](http://www.lookpolymers.com/polymer_Zell-Metall-Engineering-Plastics-Zellamid-1200-G-at-50-RH.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	Dry Density
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
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 <sup>2</sup> -°F	DIN 52612
Melting Point	190 °C	374 °F	
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	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.3 - 3.00e+13 ohm-cm	1.3 - 3.00e+13 ohm-cm	DIN 53482
Surface Resistance	1.00e+15 - 3.00e+15 ohm	1.00e+15 - 3.00e+15 ohm	DIN 53482
Dielectric Constant	3.7 @Frequency 1e+6 Hz	3.7 @Frequency 1e+6 Hz	DIN 53483
Dielectric Strength	50.0 kV/mm	1270 kV/in	DIN 53481
Dissipation Factor	0.030 @Frequency 1e+6 Hz	0.030 @Frequency 1e+6 Hz	DIN 53483

## Contact Songhan Plastic Technology Co.,Ltd.

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