Brueggemann Chemical Nyrim® 1000 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Conditioned at 23°C and 50% Relative Humidity.Nyrim is a Block Copolymer of Nylon 6 and an elastomer with exceptional properties in impact resistance, fatigue and abrasion resistance. Nyrim is processed via Reaction Injection Moulding (RIM) technology. Nyrim® is a registered trademark.Information provided by the manufacturer, Brueggemann Chemical.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Brueggemann-Chemical-Nyrim-1000-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	3.1 %	3.1 %	DIN 53714: 23°C, 50% Relative Humidity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	74	74	ISO 868
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ISO 527
Elongation at Break	250 %	250 %	ISO 527
Modulus of Elasticity	1.197 GPa	173.6 ksi	ISO 527
Flexural Modulus	1.163 GPa	168.7 ksi	ISO 178
Shear Modulus	0.520 GPa	75.4 ksi	torsional
Izod Impact, Notched (ISO)	35.0 kJ/m²	16.7 ft-lb/in²	ISO 180, Ductile break
	4.00 kJ/m² @Temperature -40.0 °C	1.90 ft-lb/in² @Temperature -40.0 °F	Brittle break; ISO 180
Charpy Impact, Notched	3.10 J/cm²	14.8 ft-lb/in²	DIN 53453, Ductile break
	0.800 J/cm² @Temperature -40.0 °C	3.81 ft-lb/in² @Temperature -40.0 °F	Brittle break; DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	214 °C	417 °F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+9 ohm-cm	5.00e+9 ohm-cm	DIN 53482

Electrical Properties	Metric	English	Comments
Surface Resistance	4.00e+8 ohm	4.00e+8 ohm	DIN 53482
Dielectric Constant	4.1 @Frequency 1e+6 Hz	4.1 @Frequency 1e+6 Hz	DIN 53483
	15.3 @Frequency 50 Hz	15.3 @Frequency 50 Hz	DIN 53483
Dielectric Strength	13.0 kV/mm	330 kV/in	DIN 53481
Dissipation Factor	0.10 @Frequency 1e+6 Hz	0.10 @Frequency 1e+6 Hz	DIN 53483
Comparative Tracking Index	400 V	400 V	DIN IEC 112 / VDE 030 t1

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