DSM Fibre Intermediates Nyrim® 2000 (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_DSM-Fibre-Intermediates-Nyrim-2000-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	2.4 %	2.4 %	DIN 53714: 23°C, 50% Relative Humidity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ISO 868
Tensile Strength, Ultimate	42.0 MPa	6090 psi	ISO 527
Elongation at Break	400 %	400 %	ISO 527
Modulus of Elasticity	0.647 GPa	93.8 ksi	ISO 527
Flexural Modulus	0.789 GPa	114 ksi	ISO 178
Shear Modulus	0.400 GPa	58.0 ksi	torsional
Izod Impact, Notched (ISO)	90.0 kJ/m²	42.8 ft-lb/in²	ISO 180, Ductile break
	12.0 kJ/m² @Temperature -40.0 °C	5.71 ft-lb/in² @Temperature -40.0 °F	Brittle break; ISO 180
Charpy Impact, Notched	4.80 J/cm²	22.8 ft-lb/in²	DIN 53453, Ductile break
	1.40 J/cm² @Temperature -40.0 °C	6.66 ft-lb/in² @Temperature -40.0 °F	Brittle break; DIN 53453

Thermal Properties	Metric	English	Comments
Melting Point	213 °C	415 °F	DSC

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	4.3 @Frequency 1e+6 Hz	4.3 @Frequency 1e+6 Hz	DIN 53483
	14.9 @Frequency 50 Hz	14.9 @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	500 V	500 V	DIN IEC 112 / VDE 030 t1

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