

DSM Fibre Intermediates Nyrin® 3000 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Conditioned at 23°C and 50% Relative Humidity. Nyrin is a Block Copolymer of Nylon 6 and an elastomer with exceptional properties in impact resistance, fatigue and abrasion resistance. Nyrin is processed via Reaction Injection Moulding (RIM) technology. Nyrin® 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-Nyrin-3000-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.7 %	1.7 %	DIN 53714: 23°C, 50% Relative Humidity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ISO 868
Tensile Strength, Ultimate	29.0 MPa	4210 psi	ISO 527
Elongation at Break	370 %	370 %	ISO 527
Modulus of Elasticity	0.431 GPa	62.5 ksi	ISO 527
Flexural Modulus	0.466 GPa	67.6 ksi	ISO 178
Izod Impact, Notched (ISO)	NB	NB	ISO 180, No break
	30.0 kJ/m ² @Temperature -40.0 °C	14.3 ft-lb/in ² @Temperature -40.0 °F	Ductile break; ISO 180
Charpy Impact, Notched	NB	NB	No break
	NB	NB	Low Temp

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+9 ohm-cm	4.00e+9 ohm-cm	DIN 53482
Surface Resistance	3.00e+8 ohm	3.00e+8 ohm	DIN 53482
Dielectric Constant	4.6	4.6	DIN 53483

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
	14.9	14.9	DIN 53483
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	13.0 kV/mm	330 kV/in	DIN 53481
	0.10	0.10	DIN 53483
Dissipation Factor	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	DIN IEC 112 / VDE 030 t1

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