

DSM Fibre Intermediates Nyrin® 4000 (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-4000-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.6 %	1.6 %	DIN 53714: 23°C, 50% Relative Humidity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	ISO 868
Tensile Strength, Ultimate	22.0 MPa	3190 psi	ISO 527
Elongation at Break	420 %	420 %	ISO 527
Modulus of Elasticity	0.229 GPa	33.2 ksi	ISO 527
Flexural Modulus	0.241 GPa	35.0 ksi	ISO 178

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

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+9 ohm-cm	2.00e+9 ohm-cm	DIN 53482
Surface Resistance	2.00e+8 ohm	2.00e+8 ohm	DIN 53482
Dielectric Constant	4.8	4.8	DIN 53483
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	15.4	15.4	DIN 53483
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	14.0 kV/mm	356 kV/in	DIN 53481
Dissipation Factor	0.10	0.10	DIN 53483

Electrical Properties	@Frequency 1e+6 Hz Metric	@Frequency 1e+6 Hz English	Comments
Comparative Tracking Index	600 V	600 V	DIN IEC 112 / VDE 030 t1

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