

DSM Fibre Intermediates Nyrim® 1500 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

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-1500-Dry.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	ISO 868
Tensile Strength, Ultimate	54.0 MPa	7830 psi	ISO 527
Elongation at Break	90 %	90 %	ISO 527
Modulus of Elasticity	2.106 GPa	305.5 ksi	ISO 527
Flexural Modulus	2.279 GPa	330.5 ksi	ISO 178
Poissons Ratio	0.32	0.32	Calculated
Shear Modulus	0.800 GPa	116 ksi	torsional
Izod Impact, Notched (ISO)	19.0 kJ/m ²	9.04 ft-lb/in ²	ISO 180, Ductile break
	9.00 kJ/m ²	4.28 ft-lb/in ²	Brittle break; ISO 180
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453, Brittle break
	1.40 J/cm ²	6.66 ft-lb/in ²	Brittle break; DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	

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

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	DIN IEC 112 / VDE 030 t1

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