

## DSM Fibre Intermediates Nyrim® 1500 (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-1500-Conditioned.php](http://www.lookpolymers.com/polymer_DSM-Fibre-Intermediates-Nyrim-1500-Conditioned.php)

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	2.5 %	2.5 %	DIN 53714: 23°C, 50% Relative Humidity

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	73	73	ISO 868
Tensile Strength, Ultimate	44.0 MPa	6380 psi	ISO 527
Elongation at Break	320 %	320 %	ISO 527
Modulus of Elasticity	0.900 GPa	131 ksi	ISO 527
Flexural Modulus	1.094 GPa	158.7 ksi	ISO 178
Shear Modulus	0.450 GPa	65.3 ksi	torsional
Izod Impact, Notched (ISO)	60.0 kJ/m <sup>2</sup>	28.6 ft-lb/in <sup>2</sup>	ISO 180, Ductile break
	10.0 kJ/m <sup>2</sup> @Temperature -40.0 °C	4.76 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	Brittle break; ISO 180
Charpy Impact, Notched	4.20 J/cm <sup>2</sup>	20.0 ft-lb/in <sup>2</sup>	DIN 53453, Ductile break
	1.50 J/cm <sup>2</sup> @Temperature -40.0 °C	7.14 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	Brittle break; DIN 53453

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

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

Surface Resistance Electrical Properties	4.00e+8 ohm Metric	4.00e+8 ohm English	DIN 53482 Comments
Dielectric Constant	4.2 @Frequency 1e+6 Hz	4.2 @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

## Contact Songhan Plastic Technology Co.,Ltd.

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