

Lanxess Durethan® BM 40 X H2.0 DUS009 901510 Nylon 6, 40% Glass Fiber + Mineral

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Glass/Mineral Reinforced

Material Notes:

PA 6, injection molding grade, 40% glass fibers/mineral, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-BM-40-X-H20-DUS009-901510-Nylon-6-40-Glass-Fiber-Mineral.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Viscosity Test	138 cm ³ /g	138 cm ³ /g	Viscosity number; ISO 307, 1157, 1628
Linear Mold Shrinkage, Flow	0.0051 cm/cm	0.0051 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0067 cm/cm	0.0067 in/in	ISO 294-4, 2577
Melt Flow	27 g/10 min @Load 5.00 kg, Temperature 260 °C	27 g/10 min @Load 11.0 lb, Temperature 500 °F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 MPa	8700 psi	Conditioned; ISO 527-1/-2
	120 MPa	17400 psi	ISO 527-1/-2
Elongation at Break	2.8 %	2.8 %	ISO 527-1/-2
Tensile Modulus	4.00 GPa	580 ksi	Conditioned; ISO 527-1/-2
	8.00 GPa	1160 ksi	ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
	4.00 J/cm ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	Conditioned; ISO 179/1eU
	4.50 J/cm ² @Temperature 23.0 °C	21.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	9.00 J/cm ² @Temperature 23.0	42.8 ft-lb/in ²	Conditioned; ISO 179/1eU

Mechanical Properties	°C Metric	@Temperature 73.4 °F English	Comments
Impact	568	568	Puncture maximum force (N); ISO 6603-2
	602 @Temperature -30.0 °C	602 @Temperature -22.0 °F	Puncture maximum force (N); ISO 6603-2
Puncture Energy	1.40 J	1.03 ft-lb	ISO 6603-2
	1.50 J @Temperature -30.0 °C	1.11 ft-lb @Temperature -22.0 °F	ISO 6603-2
	1.50 J @Temperature -30.0 °C	1.11 ft-lb @Temperature -22.0 °F	Conditioned; ISO 6603-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	221 °C	430 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	80.0 °C	176 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	425 V	425 V	IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHR,14-080,(GF+MD)40	
Processing	Injection molding	
Region	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	Near East/Africa	
	North America	
	South and Central America	

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