

Lanxess Durethan® DP BM 410 H2.0 901510 Nylon 6, 10% Mineral + Glass Fiber

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

Material Notes:

PA 6, injection molding grade, 10% glass fibers/mineral, good heat-ageing resistance

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lanxess-Durethan-DP-BM-410-H20-901510-Nylon-6-10-Mineral-Glass-Fiber.php

Physical Properties	Metric	English	Comments
Density	1.206 g/cc	0.04357 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.5 %	2.5 %	23 ^o C/50% R.H.; Test Sim. to ISO 62
Linear Mold Shrinkage, Flow	0.00124 cm/cm	0.00124 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0011 cm/cm	0.0011 in/in	ISO 294-4, 2577
Melt Flow	43 g/10 min @Load 2.16 kg, Temperature 270 ^o C	43 g/10 min @Load 4.76 lb, Temperature 518 ^o F	Estimated using room temperature density; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	45.0 MPa	6530 psi	Conditioned; ISO 527-1/-2
	75.0 MPa	10900 psi	ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	Conditioned; ISO 527-1/-2
	80.0 MPa	11600 psi	ISO 527-1/-2
Elongation at Break	8.0 %	8.0 %	ISO 527-1/-2
	183 %	183 %	Conditioned; ISO 527-1/-2
Elongation at Yield	3.5 %	3.5 %	ISO 527-1/-2
	22.6 %	22.6 %	Conditioned; ISO 527-1/-2
Tensile Modulus	1.34 GPa	194 ksi	Conditioned; ISO 527-1/-2
	4.06 GPa	589 ksi	ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm ² @Temperature -30.0 ^o C	23.8 ft-lb/in ² @Temperature -22.0 ^o F	ISO 179/1eU
	6.50 J/cm ²	30.9 ft-lb/in ²	ISO 179/1eU

Mechanical Properties	@Temperature 23.0 Metric °C	@Temperature 73.4 °F English °F	Comments
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Conditioned; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact, Notched	<= 1.00 J/cm ² @Temperature 23.0 °C	<= 4.76 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 µm/m-°C	38.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	182 °C	360 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	500 V	500 V	IEC 60112

Descriptive Properties	Value	Comments
Features	Heat stabilized or stable to heat	
Form	Pellets	
ISO Shortname	ISO 1874-PA 6,MHR,040-14,MD10	
Processing	Injection molding	
Region	Asia Pacific	
	Europe	
	Near East/Africa	
	North America	

Descriptive Properties	South and Central America Value	Comments
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