

Gromax ATE90-FN01N1 Nylon 6 (Dry)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Information provided by Gromax Enterprises Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gromax-ATE90-FN01N1-Nylon-6-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.03 g/cc	1.03 g/cc	ISO 1183
Moisture Absorption	1.40 %	1.40 %	ISO 62
Maximum Moisture Content	0.10	0.10	Karl Fischer
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	60x60x2 mm; ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	60x60x2 mm; ISO 294-4

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	67	67	[N/mm²]; ISO 7619
Tensile Strength	39.2 MPa	5690 psi	50 mm/min; ISO 527-1,-2
Elongation at Break	100 %	100 %	50 mm/min; ISO 527
Flexural Strength	68.0 MPa	9860 psi	5 mm/min; ISO 178
Flexural Modulus	1.52 GPa	220 ksi	5 mm/min; ISO 178
Izod Impact, Notched	>= NB	>= NB	5 mm/min; ISO 178
Izod Impact, Notched (ISO)	90.0 kJ/m ²	42.8 ft-lb/in ²	ISO 180-1A
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179-1eU
Charpy Impact, Notched	2.67 J/cm ² @Temperature -30.0 °C	12.7 ft-lb/in ² @Temperature -22.0 °F	ISO 179-1A
	9.50 J/cm ² @Temperature 23.0 °C	45.2 ft-lb/in ² @Temperature 73.4 °F	ISO 179-1A

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	260 Â°C Metric	500 Â°F English	10Â°C/min: ISO 11357-1,-3 Comments
Deflection Temperature at 1.8 MPa (264 psi)	68.0 Â°C	154 Â°F	ISO 75-1,-2
Flammability, UL94	HB @Thickness 1.60 mm	HB @Thickness 0.0630 in	

Processing Properties	Metric	English	Comments
Melt Temperature	286 - 300 Â°C	547 - 572 Â°F	ISO 294
Mold Temperature	80.0 - 120 Â°C	176 - 248 Â°F	ISO 294
Drying Temperature	80.0 Â°C	176 Â°F	
Dry Time	2.00 - 6.00 hour	2.00 - 6.00 hour	

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