

PolyOne Edgetek® NN-50GF/000EM L Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NN-50GF000EM-L-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	ASTM D792
Water Absorption	0.50 %	0.50 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	224 MPa	32500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	16.5 GPa	2390 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	317 MPa	46000 psi	ASTM D790
Flexural Modulus	15.2 GPa	2200 ksi	ASTM D790
Compressive Strength	185 MPa	26800 psi	ASTM D695
Izod Impact, Notched	1.40 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	2.62 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	31.0 µm/m-°C	17.2 µin/in-°F	ASTM D696
Thermal Conductivity	0.530 W/m-K	3.68 BTU-in/hr-ft²-°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	254 °C @Thickness 3.18 mm	489 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	254 °C @Thickness 3.18 mm	489 °F @Thickness 0.125 in	Annealed; ASTM D648
Flammability, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	282 - 299 °C	540 - 570 °F	
Mold Temperature	87.8 - 107 °C	190 - 225 °F	
Drying Temperature	82.2 - 93.3 °C	180 - 200 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Additive	Lubricant	
	Mold Release	
Features	Lubricated	
Filler / Reinforcement	Glass Fiber Reinforcement	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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