



Edgetek™ NN-50GF/000EM L

Polyamide 66

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	• South America
Filler / Reinforcement	• Glass Fiber Reinforcement		
Additive	• Lubricant	• Mold Release	
Features	• Lubricated		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.57	1.57 g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.0030 in/in	0.30 %	ASTM D955
Water Absorption (24 hr)	0.50 %	0.50 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	2.40E+6 psi	16500 MPa	ASTM D638
Tensile Strength ² (Break)	32500 psi	224 MPa	ASTM D638
Tensile Elongation ² (Break)	2.0 %	2.0 %	ASTM D638
Flexural Modulus	2.20E+6 psi	15200 MPa	ASTM D790
Flexural Strength	46000 psi	317 MPa	ASTM D790
Compressive Strength	26900 psi	185 MPa	ASTM D695
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	2.6 ft·lb/in	140 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	121	121	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	490 °F	254 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	490 °F	254 °C	ASTM D648
CLTE - Flow	0.000017 in/in/°F	0.000031 cm/cm/°C	ASTM D696
Thermal Conductivity	3.7 Btu·in/hr/ft ² /°F	0.53 W/m/K	ASTM C177
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity	1.0E+14 ohm·cm	1.0E+14 ohm·cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	180 to 200 °F	82.2 to 93.3 °C

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Injection	Typical Value (English)	Typical Value (SI)
Drying Time	2.0 hr	2.0 hr
Processing (Melt) Temp	540 to 570 °F	282 to 299 °C
Mold Temperature	190 to 225 °F	87.8 to 107 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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