Technical Data Sheet

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/cm³	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			ASTM D256A
73°F (23°C), 0.250 in (6.35 mm), Injection Molded	2.6 ft·lb/in	140 J/m	
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			ASTM D648
66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	490 °F	254 °C	
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	490 °F	254 °C	
CLTE - Flow	0.000017 in/in/°F	0.000031 cm/cm/°C	ASTM D696
Thermal Conductivity	3.7 Btu·in/hr/ft²/°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

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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