

Edgetek™ NN-50GF/000

Polyamide 66

PolyOne Corporation

Message:

The Edgetek® Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	General Purpose		
Uses	Automotive Applications		
	Consumer Applications		
	General Purpose		
	Industrial Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
Water Absorption (24 hr, 3.18 mm)	0.50	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	16500	MPa	ASTM D638
Tensile Strength ² (Yield)	224	MPa	ASTM D638
Tensile Elongation ³ (Break)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	15200	MPa	ASTM D790
Flexural Strength	317	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm, Injection Molded)	150	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	260	°C	ASTM D648
Injection	Nominal Value	Unit	
Processing (Melt) Temp	282 to 299	°C	
NOTE			
1.	Type I, 5.1 mm/min		
2.	Type I, 5.1 mm/min		
3.	Type I, 5.1 mm/min		

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