

PolyOne Edgetek® NN-40CF/000 FRV0 NATURAL Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

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. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NN-40CF000-FRV0-NATURAL-Polyamide-66-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.52 g/cc	1.52 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.020 - 0.040 cm/cm @Thickness 3.18 mm	0.020 - 0.040 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	221 MPa	32100 psi	5.1 mm/min; ASTM D638
Elongation at Break	1.0 %	1.0 %	5.1 mm/min; ASTM D638
Tensile Modulus	37.9 GPa	5500 ksi	5.1 mm/min; ASTM D638
Flexural Strength	331 MPa	48000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	26.2 GPa	3800 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.680 J/cm	1.27 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	245 °C @Thickness 3.18 mm	473 °F @Thickness 0.125 in	Unannealed; ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

Descriptive Properties	Value	Comments
Features	Flame Retardant	
	High Stiffness	
	Semi Crystalline	
Filler / Reinforcement	Carbon Fiber Reinforcement, 40% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 66	
Generic Name	Polyamide 66 (Nylon 66)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Aerospace Applications	
	Automotive Electronics	
	Business Equipment	
	Computer Components	
	Connectors	
	Consumer Applications	
	Electrical Housing	
	Electrical/Electronic Applications	
	Structural Parts	

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