

PolyOne Edgetek® NL-20GF/000 BLACK Polyamide 612 (Nylon 612)

Category : Polymer , Thermoplastic , Nylon , Nylon 612

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-NL-20GF000-BLACK-Polyamide-612-Nylon-612.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0040 - 0.0050 cm/cm @Thickness 3.18 mm	0.0040 - 0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	5.1 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Tensile Modulus	6.21 GPa	901 ksi	5.1 mm/min; ASTM D638
Flexural Strength	179 MPa	26000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	5.17 GPa	750 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.530 J/cm	0.993 ft-lb/in	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	206 °C	403 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °F	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Features	Good Chemical Resistance	
	Good Stability	

Descriptive Properties	Low to No Water Absorption Value	Comments
	Semi Crystalline	
Filler / Reinforcement	Glass Fiber Reinforcement, 20% Filler by Weight	
Forms	Pellets	
Generic Material	Nylon 612	
Generic Name	Polyamide 612 (Nylon 612)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Aerospace Applications	
	Appliance Components	
	Automotive Applications	
	Electrical/Electronic Applications	
	Housings	
	Industrial Applications	
	Marine Applications	
	Sporting Goods	

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