

PolyOne Edgetek® NY-20CF/000 BLACK Polyamide 6 (Nylon 6)

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NY-20CF000-BLACK-Polyamide-6-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Water Absorption	0.40 %	0.40 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0015 - 0.0025 cm/cm	0.0015 - 0.0025 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	193 MPa	28000 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	13.8 GPa	2000 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	248 MPa	36000 psi	ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	221 °C @Thickness 1.57 mm	430 °F @Thickness 0.0618 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C @Thickness 1.57 mm	421 °F @Thickness 0.0618 in	Annealed; ASTM D648

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

Processing Properties	Metric	English	Comments
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Melt Temperature Processing Properties	260 - 293 °C Metric	500 - 559 °F English	Comments
Mold Temperature	93.3 - 107 °C	200 - 225 °F	
Drying Temperature	93.3 - 107 °C	200 - 225 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Filler / Reinforcement	Carbon Fiber Reinforcement	
Forms	Pellets	
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

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