

## PolyOne Edgetek® NY-20GF/10GB/000 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-20GF10GB000-Polyamide-6-Nylon-6.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-NY-20GF10GB000-Polyamide-6-Nylon-6.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	@ 24 hrs; ASTM D570
Water Absorption at Saturation	6.8 %	6.8 %	ASTM D570
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.1 MPa	13500 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	5.86 GPa	850 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	4.83 GPa	701 ksi	ASTM D790
Compressive Strength	107 MPa	15500 psi	ASTM D695
Shear Strength	66.9 MPa	9700 psi	ASTM D732
Izod Impact, Notched	0.640 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.20 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 µm/m-°C	22.2 µin/in-°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	213 °C @Thickness 3.18 mm	415 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	207 °C @Thickness 3.18 mm	405 °F @Thickness 0.125 in	Annealed; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	271 - 293 °C	520 - 559 °F	
Mold Temperature	93.3 - 121 °C	200 - 250 °F	
Drying Temperature	93.3 °C	200 °F	
Dry Time	4.00 hour	4.00 hour	

Descriptive Properties	Value	Comments
Generic Material	Nylon 6	
Generic Name	Polyamide 6 (Nylon 6)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	

## Contact Songhan Plastic Technology Co.,Ltd.

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