

PolyOne Stat-Tech™ NN-40CF/000 FRV0 Natural Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Stat-Tech-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	

Descriptive Properties	Value	Comments
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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