

Diamond Polymers NYLON 66GF33 Black

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-NYLON-66GF33-Black.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Water Absorption	0.70 %	0.70 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	flow direction; ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	
	0.0050 cm/cm	0.0050 in/in	transverse direction; ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	99	99	ASTM D785
Tensile Strength at Break	199.8 MPa	28980 psi	ASTM D638
Elongation at Break	24 %	24 %	ASTM D638
Flexural Strength	282.5 MPa	40970 psi	ASTM D790
Flexural Modulus	9.301 GPa	1349 ksi	ASTM D790
Izod Impact, Notched	1.175 J/cm	2.201 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Tensile Impact Strength	126.2 kJ/m ²	60.05 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	250 °C	482 °F	0.125";; ASTM D648

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