

Diamond Polymers NYLON 6615 Black, Super Tough

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-6615-Black-Super-Tough.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Water Absorption	1.2 %	1.2 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ASTM D955
	@Thickness 3.17 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ASTM D785
Tensile Strength, Yield	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	50 - 60 %	50 - 60 %	ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ASTM D790
Flexural Modulus	1.655 GPa	240.0 ksi	ASTM D790
Izod Impact, Notched	8.00 - 9.00 J/cm	15.0 - 16.9 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
Izod Impact, Unnotched	133 - 160 J/cm	249 - 300 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Melting Point	255 °C	491 °F	ASTM D789
Deflection Temperature at 1.8 MPa (264 psi)	88.0 °C	190 °F	ASTM D648

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