

Diamond Polymers NPP 60-763 Clear Amorphous Polyester Copolymer

Category : Polymer , Thermoplastic , Polyester, TP

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-NPP-60-763-Clear-Amorphous-Polyester-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength, Yield	50.0 MPa	7250 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Strength	70.3 MPa	10200 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.10 GPa	305 ksi	chs 0.05 in/min; tangent; ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Notched	NB	NB	ASTM D256
	@Thickness 3.17 mm, Temperature -30.0 °C	@Thickness 0.125 in, Temperature -22.0 °F	
Dart Drop, Total Energy	33.0 J	24.3 ft-lb	Energy to peak force; ASTM D3763
	@Thickness 3.17 mm, Temperature 22.8 °C	@Thickness 0.125 in, Temperature 73.0 °F	
Dart Drop, Total Energy	50.1 J	37.0 ft-lb	Energy to peak force; ASTM D3763
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	85.0 °C	185 °F	ASTM D1525

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments ¹³
Transmission, Visible	89 %	89 %	ASTM D1003

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