

Diamond Polymers NPP 60-8419G 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-60-8419G-Clear-Amorphous-Polyester-Copolymer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|-----------|-----------|---------------------------------|
| Specific Gravity | 1.34 g/cc | 1.34 g/cc | ASTM D792 |
| Viscosity Measurement | 0.800 | 0.800 | Intrinsic Viscosity; ASTM D4603 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|--|---|-------------------------------------|
| Tensile Strength, Yield | 71.7 MPa | 10400 psi | chs 2.0 in/min; ASTM D638 |
| Elongation at Break | 3.9 % | 3.9 % | ASTM D638 |
| Elongation at Yield | 2.9 % | 2.9 % | ASTM D638 |
| Flexural Strength | 94.4 MPa | 13700 psi | chs 0.05 in/min; ASTM D790 |
| Flexural Modulus | 2.577 GPa | 373.8 ksi | chs 0.05 in/min; tangent; ASTM D790 |
| Izod Impact, Notched | 0.267 J/cm @Thickness 3.17 mm, Temperature 23.0 °C | 0.500 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F | ASTM D256 |
| Gardner Impact | >= 0.960 J @Temperature 23.0 °C | >= 0.708 ft-lb @Temperature 73.4 °F | ASTM D5420 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------|
| Transmission, Visible | 90 % | 90 % | clear; thickness not quantified |

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