

## Diamond Polymers NPP 60-1010 PCTA Polyester Alloy

Category : Polymer , Thermoplastic , Polyester, TP , PCTA Polyester Alloy

### 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-60-1010-PCTA-Polyester-Alloy.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-NPP-60-1010-PCTA-Polyester-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	103	103	ASTM D785
Tensile Strength at Break	51.0 MPa	7400 psi	ASTM D638
Tensile Strength, Yield	47.0 MPa	6820 psi	ASTM D638
Elongation at Break	300 %	300 %	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	0.374 J/cm	0.701 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature -40.0 °C	@Thickness 0.125 in, Temperature -40.0 °F	
Impact Test	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Impact Test	42.0 J	31.0 ft-lb	High speed instrumented impact (puncture); Energy @ max load; ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Impact Test	48.0 J	35.4 ft-lb	High speed instrumented impact (puncture); Energy @ max load; ASTM D3763
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	167 °C	333 °F	0.125"; ASTM D648
Deflection Temperature at 1.8 MPa	149 °C	300 °F	0.125"; ASTM D648

<small>(264 psi)</small> Thermal Properties	Metric	English	Comments
Optical Properties	Metric	English	Comments
Haze	0.30 %	0.30 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003
	91 %	91 %	Total transmission; ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

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