

Samyang Triloy® 450N Polymer Alloy, Blow Molding

Category : Polymer , Thermoplastic

Material Notes:

Excellent impact, formability and weather resistance. 450N is a blow molding grade. Applications: Connectors Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-450N-Polymer-Alloy-Blow-Molding.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.0070 - 0.012 cm/cm	0.0070 - 0.012 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 3.80 kg, Temperature 250 °C	6.0 g/10 min @Load 8.38 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength	63.7 MPa	9250 psi	ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Flexural Yield Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	ASTM D790
Izod Impact, Notched	7.85 J/cm @Thickness 3.17 mm	14.7 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 µm/m-°C	46.1 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.800 mm	V-0 @Thickness 0.0315 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+16 ohm-cm	3.00e+16 ohm-cm	ASTM D257

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.0 kV/mm	584 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
Arc Resistance	121 sec	121 sec	ASTM D495

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