

Samyang Triloy® S460G15 Polymer Alloy, Reinforced

Category : Polymer , Thermoplastic

Material Notes:

Excellent impact, formability and weather resistance. 220 is a reinforced grade. Applications: LCD Panel Frame - for dimensional stability. Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-S460G15-Polymer-Alloy-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
Melt Flow	20 g/10 min @Load 3.80 kg, Temperature 250 °C	20 g/10 min @Load 8.38 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength	83.4 MPa	12100 psi	ASTM D638
Elongation at Break	3.0 %	3.0 %	ASTM D638
Flexural Yield Strength	98.1 MPa	14200 psi	ASTM D790
Flexural Modulus	3.43 GPa	498 ksi	ASTM D790
Izod Impact, Notched	0.490 J/cm @Thickness 3.17 mm	0.918 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)	125 °C	257 °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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