

Samyang Triloy® 210NHF Polymer Alloy, Flame Retardancy (Non-Halogen)

Category : Polymer , Thermoplastic

Material Notes:

Excellent impact, formability and weather resistance. 210NHF is a flame retardant (non-halogen) grade. Applications: LCD TV Rear Cover (high flow) Information provided by Samyang.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-210NHF-Polymer-Alloy-Flame-Retardancy-Non-Halogen.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	20 g/10 min @Load 2.16 kg, Temperature 260 Â°C	20 g/10 min @Load 4.76 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ASTM D785
Tensile Strength	61.8 MPa	8960 psi	ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Flexural Yield Strength	83.4 MPa	12100 psi	ASTM D790
Flexural Modulus	2.26 GPa	327 ksi	ASTM D790
Izod Impact, Notched	5.39 J/cm @Thickness 3.17 mm	10.1 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	83.0 Âµm/m-Â°C	46.1 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C	194 Â°F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	5VB @Thickness 2.50 mm	5VB @Thickness 0.0984 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.00e+16 ohm-cm	9.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.0	3.0	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495

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