

Samyang Triloy[®] 215 PC/ABS alloy

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Characteristics:Dimensional stabilityHigh heat resistanceGood flowApplications:Camera partsExterior panelCluster fasciaWheel coverStructural applicationI/P. core panelHelmet shellGlove box doorCowl vent grillAll information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-215-PCABS-alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	9.0 g/10 min	9.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	58.8 MPa	8530 psi	ASTM D638
Elongation at Break	120 %	120 %	ASTM D638
Flexural Yield Strength	83.4 MPa	12100 psi	ASTM D790
Flexural Modulus	2.45 GPa	356 ksi	ASTM D790
Izod Impact, Unnotched	7.85 J/cm	14.7 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	73.0 Âµm/m-Â°C	40.6 Âµin/in-Â°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	118 Â°C	244 Â°F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0625 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.00e+16 ohm-cm	5.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.0 @Frequency 1.00e+6 Hz	3.0 @Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
Dissipation Factor	0.0090 @Frequency 1.00e+6 Hz	0.0090 @Frequency 1.00e+6 Hz	ASTM D150
Arc Resistance	123 sec	123 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 Å°C	446 - 482 Å°F	
Middle Barrel Temperature	220 - 240 Å°C	428 - 464 Å°F	
Front Barrel Temperature	210 - 230 Å°C	410 - 446 Å°F	
Nozzle Temperature	240 - 250 Å°C	464 - 482 Å°F	
Melt Temperature	240 - 250 Å°C	464 - 482 Å°F	
Drying Temperature	120 Å°C	248 Å°F	
Dry Time	3 - 5 hour	3 - 5 hour	
Moisture Content	<= 0.020 %	<= 0.020 %	
Screw Speed	30 - 80 rpm	30 - 80 rpm	

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