

Samyang Triloy® 200 PC/ABS alloy

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

Material Notes:

General purpose
 Characteristics: Impact resistant
 Good flow
 Applications: Camera parts
 Exterior panel
 Cluster fascia
 Wheel cover
 Structural application
 I/P. core panel
 Helmet shell
 Glove box door
 Cowl vent grill
 All information provided by Samyang

Order this product through the following link:

http://www.lookpolymers.com/polymer_Samyang-Triloy-200-PCABS-alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 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	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	53.9 MPa	7820 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Flexural Yield Strength	76.5 MPa	11100 psi	ASTM D790
Flexural Modulus	2.16 GPa	313 ksi	ASTM D790
Izod Impact, Unnotched	7.35 J/cm	13.8 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
CTE, linear	73.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	40.6 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	216 °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

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	ASTM D150
Dielectric Strength	25.0 kV/mm	635 kV/in	ASTM D149
Dissipation Factor	0.0090	0.0090	ASTM D150
Arc Resistance	123 sec	123 sec	ASTM D495

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 °C	446 - 482 °F	
Middle Barrel Temperature	220 - 240 °C	428 - 464 °F	
Front Barrel Temperature	210 - 230 °C	410 - 446 °F	
Nozzle Temperature	240 - 250 °C	464 - 482 °F	
Melt Temperature	240 - 250 °C	464 - 482 °F	
Drying Temperature	120 °C	248 °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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