

Amity Thermosets ATI 102 Phenolic Molding Organic Filler, Injection Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic

Material Notes:

Characteristics:Electrical low loss Good mechanical strengthHigh electrical insulationGood mechanical strengthGlossy surfaceLow water absorptionColor-blackVery soft flow Applications: Electric switchgear components (eg. relays) Telecommunication equipment partsElectronic equipment partsAutomotive (electronic and electrical) parts Medium tension pulleysHigh gloss toilet seatsBig meter coversCircuit breaking switchesCoffee machine basesAutomobile light and signaling switches Moulding which ought to have overall good propertiesSolenoid switch covers, knobs and tops (superior quality), etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATI-102-Phenolic-Molding-Organic-Filler-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.32 - 1.38 g/cc	0.0477 - 0.0499 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.600 - 0.660 g/cc	0.0217 - 0.0238 lb/in ³	IS 867-1963
Water Absorption	0.20 - 0.40 %	0.20 - 0.40 %	IS 13411-1993
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 - 53.0 MPa	6670 - 7690 psi	5 mm/min.; IS 867-1963
Shear Strength	67.0 - 77.0 MPa	9720 - 11200 psi	IS 867-1963
Izod Impact, Notched	0.220 - 0.300 J/cm	0.412 - 0.562 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 - 1.00e+12 ohm-cm	1.00e+11 - 1.00e+12 ohm-cm	IS 3396-1979
Surface Resistance	3.2e+10 - 3.2e+11 ohm	3.2e+10 - 3.2e+11 ohm	IS 3396-1979
Dielectric Strength	6.00 - 8.00 kV/mm @Temperature 90.0 °C	152 - 203 kV/in @Temperature 194 °F	IS 2584-1963
Comparative Tracking Index	>= 135 V	>= 135 V	2824-1975

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	65.0 - 85.0 °C	149 - 185 °F	
Front Barrel Temperature	85.0 - 95.0 °C	185 - 203 °F	
Nozzle Temperature			

Processing Properties	$\leq 105^{\circ}\text{C}$ Metric	$\leq 221^{\circ}\text{F}$ English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	
Injection Pressure	98.0 - 196 MPa	14200 - 28400 psi	
Hold Pressure	58.8 MPa	8530 psi	
Cure Time	0.200 - 0.333 min	0.00333 - 0.00556 hour	per mm
Shelf Life	12.0 Month	12.0 Month	10-25°C

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China