

Amity Thermosets ATI 172 Phenolic Molding Organic and inorganic Filler, Injection Molded

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

Material Notes:

Characteristics: Heat resistant (asbestos free) Good electric insulation Low shrinkage Low water absorption Medium mechanical strength Not suitable for high mechanical tension Color-black Very soft flow Applications: Heat shields Oven knobs Toaster knobs Coffee machine base Thermal insulation Switchgear components which ought to withstand heat (200 OC), etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATI-172-Phenolic-Molding-Organic-and-inorganic-Filler-Injection-Molded.php

Physical Properties	Metric	English	Comments
Density	1.45 - 1.55 g/cc	0.0524 - 0.0560 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.670 - 0.750 g/cc	0.0242 - 0.0271 lb/in ³	IS 867-1963
Water Absorption	0.25 - 0.50 %	0.25 - 0.50 %	IS 13411-1993
Linear Mold Shrinkage	0.0040 - 0.0060 cm/cm	0.0040 - 0.0060 in/in	Compression specimen; IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 - 50.0 MPa	5800 - 7250 psi	5 mm/min.; IS 867-1963
Shear Strength	66.0 - 75.0 MPa	9570 - 10900 psi	IS 867-1963
Izod Impact, Notched	0.200 - 0.300 J/cm	0.375 - 0.562 ft-lb/in	IS 13411-1992

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 200 °C	>= 392 °F	2 hours

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 - 3.16e+11 ohm-cm	1.00e+11 - 3.16e+11 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+10 - 1.00e+11 ohm	1.00e+10 - 1.00e+11 ohm	IS 3396-1979
Dielectric Strength	5.50 - 7.50 kV/mm @Temperature 90.0 °C	140 - 191 kV/in @Temperature 194 °F	IS 2584-1963
Comparative Tracking Index	>= 125 V	>= 125 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	<= 105 °C	<= 221 °F	
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	0.333 - 0.500 min	0.00556 - 0.00833 hour	per mm
Shelf Life	12.0 Month	12.0 Month	10-25°C

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