

Amity Thermosets ATE 183 Phenolic Molding Mica and organic Filler, Compression Molded

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

Material Notes:

Characteristics: Electric low loss Low water absorption Low shrinkage Heat stable Glossy surface finish Very good mouldability Good electrical insulation Good chemical resistant Color-black Medium flow Applications: Electric motor commutators (medium mechanical strength) Motor starter parts Signaling equipment parts High voltage electric meter covers Circuit protecting switches Electric relay parts which ought to withstand high voltage Automotive parts (spacers, spark plugs etc) Components which ought to withstand electric shock but not high mechanical stress Components which ought to be dimensionally stable electrically insulating & resistant to humidity, etc.

Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATE-183-Phenolic-Molding-Mica-and-organic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.68 - 1.78 g/cc	0.0607 - 0.0643 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.700 - 0.850 g/cc	0.0253 - 0.0307 lb/in ³	IS 867-1963
Water Absorption	0.12 - 0.25 %	0.12 - 0.25 %	IS 13411-1993
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 - 45.0 MPa	4350 - 6530 psi	5 mm/min.; IS 867-1963
Shear Strength	50.0 - 65.0 MPa	7250 - 9430 psi	IS 867-1963
Izod Impact, Notched	0.150 - 0.250 J/cm	0.281 - 0.468 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 - 1.00e+13 ohm-cm	1.00e+12 - 1.00e+13 ohm-cm	IS 3396-1979
Surface Resistance	3.2e+11 - 1.0e+12 ohm	3.2e+11 - 1.0e+12 ohm	IS 3396-1979
Dielectric Strength	8.00 - 10.5 kV/mm @Temperature 90.0 °C	203 - 267 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	
Injection Pressure	14.7 - 35.28 MPa	2130 - 5117 psi	Mold Pressure

Cure Time Processing Properties	0.917 - 1.08 min Metric	0.0153 - 0.0181 hour English	per mm Comments
Shelf Life	12.0 Month	12.0 Month	10-25°C

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