

## Amity Thermosets ATE 183 M 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-M-Phenolic-Molding-Mica-and-organic-Filler-Compression-Molded.php](http://www.lookpolymers.com/polymer_Amity-Thermosets-ATE-183-M-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 <sup>3</sup>	Molding; IS 867-1963
Apparent Bulk Density	0.700 - 0.850 g/cc	0.0253 - 0.0307 lb/in <sup>3</sup>	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

Processing Properties	Metric	English	Comments
	1.08 min	0.0181 hour	
Shelf Life	12.0 Month	12.0 Month	10-25°C

Descriptive Properties	Value	Comments
Chloride content	Nil to traces	
Free Phenol	Nil to traces	

## Contact Songhan Plastic Technology Co.,Ltd.

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