

Amity Thermosets ATM 144 Phenolic Molding Organic Filler, Compression Molded

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

Material Notes:

Characteristics: Good mouldability Good mechanical strength Good electrical insulation Good surface finish Medium thermal stability Color- black, brown Soft/medium flow Applications: Electric control panel parts Small electric meter covers & parts Electric accessories (superior quality) Glossy handles & knobs Toaster & electric appliance parts Lamp holder Toilet seats Carbon brush holders Decor items (e.g. ash trays) Starter push buttons Solenoid switch covers (medium quality) Kitchen equipment (eg. mixer, dishwasher, ovens) fittings Terminal boards, etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATM-144-Phenolic-Molding-Organic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.36 - 1.42 g/cc	0.0491 - 0.0513 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.620 - 0.690 g/cc	0.0224 - 0.0249 lb/in ³	IS 867-1963
Water Absorption	0.30 - 0.55 %	0.30 - 0.55 %	IS 13411-1993
Linear Mold Shrinkage	0.0070 - 0.0083 cm/cm	0.0070 - 0.0083 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 - 60.0 MPa	6670 - 8700 psi	5 mm/min.; IS 867-1963
Shear Strength	66.0 - 76.0 MPa	9570 - 11000 psi	2mm/min.; IS 867-1963
Izod Impact, Notched	0.280 - 0.420 J/cm	0.525 - 0.787 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.2e+10 - 3.2e+11 ohm-cm	3.2e+10 - 3.2e+11 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+10 - 3.16e+10 ohm	1.00e+10 - 3.16e+10 ohm	IS 3396-1979
Dielectric Strength	5.50 - 7.00 kV/mm @Temperature 90.0 °C	140 - 178 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	
Injection Pressure	15.68 - 34.3 MPa	2274 - 4970 psi	Mold Pressure

Cure Time Processing Properties	0.333 - 0.417 min Metric	0.00556 - 0.00694 hour English	per mm Comments
Shelf Life	12.0 Month	12.0 Month	10-25°C

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