

Amity Thermosets ATG 116 Phenolic Molding Organic and inorganic Filler, Compression Molded

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

Material Notes:

Characteristics: Medium mechanical strength Medium electrical insulation General purpose Color- Black Medium flow Applications: Electrical accessories & fittings (medium quality) Domestic appliance handles & knobs Bottle caps Lamp casing, housings Connectors, etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATG-116-Phenolic-Molding-Organic-and-inorganic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.40 - 1.46 g/cc	0.0506 - 0.0527 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.680 - 0.730 g/cc	0.0246 - 0.0264 lb/in ³	IS 867-1963
Water Absorption	0.35 - 0.48 %	0.35 - 0.48 %	IS 13411-1993
Linear Mold Shrinkage	0.0074 - 0.0086 cm/cm	0.0074 - 0.0086 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 - 54.0 MPa	6090 - 7830 psi	5 mm/min.; IS 867-1963
Shear Strength	60.0 - 70.0 MPa	8700 - 10200 psi	IS 867-1963
Izod Impact, Notched	0.220 - 0.400 J/cm	0.412 - 0.749 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 - 1.00e+11 ohm-cm	1.00e+10 - 1.00e+11 ohm-cm	IS 3396-1979
Surface Resistance	3.2e+9 - 1.0e+10 ohm	3.2e+9 - 1.0e+10 ohm	IS 3396-1979
Dielectric Strength	3.00 - 5.00 kV/mm @Temperature 90.0 °C	76.2 - 127 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	0.333 - 0.417 min	0.00556 - 0.00694 hour	per mm
Shelf Life	12.0 Month	12.0 Month	10-25°C

Processing Properties	Metric	English	Comments
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