

Amity Thermosets ATS 751 Phenolic Molding Inorganic and glass fiber Filler, Compression Molded

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

Material Notes:

Characteristics: High impact strength Dimensional stability High mechanical strength Heat stability (200°C) Good media resistance (eg. Oil, water) Low shrinkage Good electrical resistance Color-brown, black Soft/medium flow Applications: Automobile engine parts capable of bearing mechanical & thermal shocks Pump housing Circuit breakers Electric motor end shields Tension pulleys Impellers Safety belt block Components which ought to bear thermal mechanical & electric shocks, etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATS-751-Phenolic-Molding-Inorganic-and-glass-fiber-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.63 - 1.75 g/cc	0.0589 - 0.0632 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.680 - 0.780 g/cc	0.0246 - 0.0282 lb/in ³	IS 867-1963
Water Absorption	0.10 - 0.16 %	0.10 - 0.16 %	IS 13411-1993
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	60.0 - 70.0 MPa	8700 - 10200 psi	5 mm/min.; IS 867-1963
Shear Strength	100 - 120 MPa	14500 - 17400 psi	2mm/min.; IS 867-1963
Izod Impact, Notched	0.450 - 0.650 J/cm	0.843 - 1.22 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.2e+11 - 1.0e+12 ohm-cm	3.2e+11 - 1.0e+12 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+11 - 3.16e+11 ohm	1.00e+11 - 3.16e+11 ohm	IS 3396-1979
Dielectric Strength	8.00 - 10.0 kV/mm @Temperature 90.0 °C	203 - 254 kV/in @Temperature 194 °F	IS 2584-1963
Comparative Tracking Index	>= 150 V	>= 150 V	2824-1975

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

Processing Properties	Metric	English	Comments
Shelf Life	12.0 Month	12.0 Month	10-25°C

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