

Amity Thermosets AMP 481 Phenolic Molding Organic and inorganic Filler, Compression Molded

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

Material Notes:

Characteristics: Good tracking resistance, Good dielectric strength, Good electrical insulation. Applications: Switchgear components which ought to have high tracking resistance, Circuit protecting switches, Micro switches etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-AMP-481-Phenolic-Molding-Organic-and-inorganic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.40 - 1.45 g/cc	0.0506 - 0.0524 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.620 - 0.700 g/cc	0.0224 - 0.0253 lb/in ³	IS 867-1963
Water Absorption	<= 0.40 %	<= 0.40 %	IS 13411-1993
Linear Mold Shrinkage	0.0040 - 0.0075 cm/cm	0.0040 - 0.0075 in/in	bar; IS 13411-1992
	0.0060 - 0.0075 cm/cm	0.0060 - 0.0075 in/in	disk; IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 - 70.0 MPa	8120 - 10200 psi	5 mm/min.; IS 867-1963
Shear Strength	75.0 - 90.0 MPa	10900 - 13100 psi	2mm/min.; IS 867-1963
Izod Impact, Notched	0.220 - 0.350 J/cm	0.412 - 0.656 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 - 3.16e+11 ohm-cm	1.00e+11 - 3.16e+11 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+10 - 1.00e+11 ohm	1.00e+10 - 1.00e+11 ohm	IS 3396-1979
Dielectric Strength	>= 7.00 kV/mm	>= 178 kV/in	IS 2584-1963
	@Temperature 90.0 °C	@Temperature 194 °F	
Comparative Tracking Index	>= 300 V	>= 300 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

Cure Time Processing Properties	0.417 - 0.583 min Metric	0.00594 - 0.00972 hour English	per mm Comments
Shelf Life	4.00 Month	4.00 Month	10-25°C

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