

Amity Thermosets ATO 142 Phenolic Molding Organic Filler, Compression Molded

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

Material Notes:

Characteristics:Electrical low loss Good mechanical strengthHigh electrical insulationGood mechanical strengthGlossy surfaceLow water absorptionColor-black, brownMedium/hard flow Applications: Electric switchgear components (eg. relays) Telecommunication equipment partsElectronic equipment partsAutomotive (electronic and electrical) parts Medium tension pulleysHigh gloss toilet seatsBig meter coversCircuit breaking switchesCoffee machine basesAutomobile light and signaling switches Moulding which ought to have overall good propertiesSolenoid switch covers, knobs and tops (superior quality), etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATO-142-Phenolic-Molding-Organic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.35 - 1.38 g/cc	0.0488 - 0.0499 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.620 - 0.680 g/cc	0.0224 - 0.0246 lb/in ³	IS 867-1963
Water Absorption	0.30 - 0.40 %	0.30 - 0.40 %	IS 13411-1993
Linear Mold Shrinkage	0.0075 - 0.0083 cm/cm	0.0075 - 0.0083 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 - 60.0 MPa	7250 - 8700 psi	5 mm/min.; IS 867-1963
Shear Strength	70.0 - 84.0 MPa	10200 - 12200 psi	IS 867-1963
Izod Impact, Notched	0.250 - 0.400 J/cm	0.468 - 0.749 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.16e+10 - 3.16e+11 ohm-cm	3.16e+10 - 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	5.50 - 7.50 kV/mm @Temperature 90.0 °C	140 - 191 kV/in @Temperature 194 °F	IS 2584-1963
Comparative Tracking Index	>= 125 V	>= 125 V	2824-1975

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	

Injection Pressure Processing Properties	15.68 - 34.3 MPa Metric	2274 - 4970 psi English	Mold Pressure Comments
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

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