

Amity Thermosets ATR 126 Phenolic Molding Organic Filler, Compression Molded

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

Material Notes:

Characteristics:Ammonia freeGood mouldabilityGood mechanical strengthGood electrical insulationGood surface finishMedium thermal stability Color-black, brownSoft/medium flow Applications:Telecommunication equipment partsAutomotive electrical parts Moulding which remain in contact with metal partsElectric switchgear components (eg. relay)Components exposed to warm atmosphere, etc.
Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATR-126-Phenolic-Molding-Organic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.37 - 1.42 g/cc	0.0495 - 0.0513 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.640 - 0.700 g/cc	0.0231 - 0.0253 lb/in ³	IS 867-1963
Water Absorption	0.20 - 0.60 %	0.20 - 0.60 %	IS 13411-1993
Linear Mold Shrinkage	0.0060 - 0.0077 cm/cm	0.0060 - 0.0077 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	46.0 - 55.0 MPa	6670 - 7980 psi	5 mm/min.; IS 867-1963
Shear Strength	66.0 - 75.0 MPa	9570 - 10900 psi	2mm/min.; IS 867-1963
Izod Impact, Notched	0.220 - 0.300 J/cm	0.412 - 0.562 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 - 3.16e+10 ohm	1.00e+10 - 3.16e+10 ohm	IS 3396-1979
Dielectric Strength	4.00 - 5.00 kV/mm @Temperature 90.0 °C	102 - 127 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 170 °C	320 - 338 °F	
Injection Pressure	15.68 - 34.3 MPa	2274 - 4970 psi	Mold Pressure
Cure Time	0.333 - 0.500 min	0.00556 - 0.00833 hour	per mm

Shelf Life Processing Properties	1.50 Month Metric	1.50 Month English	27-30°C Comments
	4.00 Month	4.00 Month	below 20°C

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