

Amity Thermosets ATO 156 Phenolic Molding Glass Filler, Compression Molded

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

Material Notes:

Characteristics: High electrical insulation High mechanical strength Dimensional stability Low water absorption Color-black Medium flow

Applications: High electric insulation components High voltage switch parts Cross bars Iron heat shield Commutators Vacuum cleaner

parts Automotive parts (which ought to withstand thermal shocks) Wind Screen wiper parts Washing machine parts (higher quality

) Thermally and mechanically highly stressed parts Insulating flanges Pulleys High quality castor wheels Pump housing Electric motor end

shield , etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATO-156-Phenolic-Molding-Glass-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.70 - 1.76 g/cc	0.0614 - 0.0636 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.750 - 0.850 g/cc	0.0271 - 0.0307 lb/in ³	IS 867-1963
Water Absorption	0.15 - 0.20 %	0.15 - 0.20 %	IS 13411-1993
Linear Mold Shrinkage	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 - 60.0 MPa	7690 - 8700 psi	5 mm/min.; IS 867-1963
Shear Strength	75.0 - 80.0 MPa	10900 - 11600 psi	IS 867-1963
Izod Impact, Notched	0.400 - 0.500 J/cm	0.749 - 0.937 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.2e+11 - 3.2e+12 ohm-cm	3.2e+11 - 3.2e+12 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+11 - 1.00e+12 ohm	1.00e+11 - 1.00e+12 ohm	IS 3396-1979
Dielectric Strength	>= 9.00 kV/mm @Temperature 90.0 °C	>= 229 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	0.833 - 1.00 min	0.0139 - 0.0167 hour	per mm

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

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