

Amity Thermosets ATM 123 Phenolic Molding Organic Filler, Compression Molded

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

Material Notes:

Characteristics:Glossy surface free of filler marks Surface good & free of flaws Good mouldabilitySurface free of filler marks even after turningGood mechanical strengthColor-black, brownMedium flowApplications: Textile drums, bobbins & other textile machine parts Bottle caps (big size)Glossy knobsComponents which ought to be polished after moulding , etc.Information provided by Amity Thermosets Limited

Order this product through the following link:

http://www.lookpolymers.com/polymer_Amity-Thermosets-ATM-123-Phenolic-Molding-Organic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.32 - 1.38 g/cc	0.0477 - 0.0499 lb/in ³	Molding; IS 867-1963
Apparent Bulk Density	0.680 - 0.720 g/cc	0.0246 - 0.0260 lb/in ³	IS 867-1963
Water Absorption	0.26 - 0.39 %	0.26 - 0.39 %	IS 13411-1993
Linear Mold Shrinkage	0.0081 - 0.0089 cm/cm	0.0081 - 0.0089 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 46.0 MPa	>= 6670 psi	5 mm/min.; IS 867-1963
Shear Strength	>= 60.0 MPa	>= 8700 psi	IS 867-1963
Izod Impact, Notched	>= 0.220 J/cm	>= 0.412 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+11 ohm-cm	>= 1.00e+11 ohm-cm	IS 3396-1979
Surface Resistance	>= 1.00e+10 ohm	>= 1.00e+10 ohm	IS 3396-1979
Dielectric Strength	>= 4.00 kV/mm @Temperature 90.0 °C	>= 102 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	
Moisture Content	2.2 - 4.5 %	2.2 - 4.5 %	
Injection Pressure	15.68 - 34.3 MPa	2274 - 4970 psi	Mold Pressure
Cure Time	0.333 - 0.417 min	0.00556 - 0.00694 hour	per mm

Processing Properties

Metric^{lenth}

English^{lenth}

Comments

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