

Amity Thermosets ATM 125 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, brownSoft/medium 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-125-Phenolic-Molding-Organic-Filler-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	1.35 - 1.38 g/cc	0.0488 - 0.0499 lb/in³	Molding; IS 867-1963
Apparent Bulk Density	0.620 - 0.700 g/cc	0.0224 - 0.0253 lb/in³	IS 867-1963
Water Absorption	0.30 - 0.50 %	0.30 - 0.50 %	IS 13411-1993
Linear Mold Shrinkage	0.0076 - 0.0086 cm/cm	0.0076 - 0.0086 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 - 70.0 MPa	8700 - 10200 psi	IS 867-1963
Izod Impact, Notched	>= 0.250 J/cm	>= 0.468 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 - 3.16e+10 ohm-cm	1.00e+10 - 3.16e+10 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+9 - 3.16e+9 ohm	1.00e+9 - 3.16e+9 ohm	IS 3396-1979
Dielectric Strength	3.00 - 5.00 kV/mm @Temperature 90.0 °C	76.2 - 127 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 180 °C	320 - 356 °F	
Moisture Content	4.0 - 5.5 %	4.0 - 5.5 %	
Injection Pressure	15.68 - 34.3 MPa	2274 - 4970 psi	Mold Pressure
Cure Time			per mm

Processing Properties	0.333 - 0.417 min Metric	0.00556 - 0.00694 hour English	Comments
Shelf Life	12.0 Month	12.0 Month	10-25°C

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