

## Amity Thermosets ATR 457© Phenolic Molding Glass fiber Filler, Compression Molded

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

### Material Notes:

Characteristics: High shock resistant ( high impact strength ) High Mechanical Strength High Dielectric Strength High Electrical Insulation  
 Color- pale brown Medium flow Applications: Electric motor end shield Electrical panel components to withstand high impact High mechanical strength laminated sheets Moulded items to withstand high mechanical shock Automotive lamp caps Mouldings exposed to warm & humid climate Moulding exposed to low intensity flame and spark, etc. Grinding disc centres Castors Gas meter parts Gas regulator knobs, etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Amity-Thermosets-ATR-457-Phenolic-Molding-Glass-fiber-Filler-Compression-Molded.php](http://www.lookpolymers.com/polymer_Amity-Thermosets-ATR-457-Phenolic-Molding-Glass-fiber-Filler-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.85 - 2.10 g/cc	0.0668 - 0.0759 lb/in <sup>3</sup>	Molding; IS 867-1963
Water Absorption	0.050 - 0.20 %	0.050 - 0.20 %	IS 13411-1993
Linear Mold Shrinkage	0.00050 - 0.0015 cm/cm	0.00050 - 0.0015 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 - 106 MPa	13100 - 15400 psi	5 mm/min.; IS 867-1963
Shear Strength	120 - 180 MPa	17400 - 26100 psi	2mm/min.; IS 867-1963
Izod Impact, Notched	15.0 - 20.0 J/cm	28.1 - 37.5 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+12 ohm-cm	>= 1.00e+12 ohm-cm	IS 3396-1979
Surface Resistance	>= 1.00e+11 ohm	>= 1.00e+11 ohm	IS 3396-1979
Dielectric Strength	>= 8.00 kV/mm @Temperature 90.0 °C	>= 203 kV/in @Temperature 194 °F	IS 2584-1963
Comparative Tracking Index	>= 175 V	>= 175 V	2824-1975

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	1.33 - 1.83 min	0.0222 - 0.0306 hour	per mm

Processing Properties

Metric<sup>onth</sup>

English<sup>nth</sup>

Comments

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