

## Amity Thermosets ATS 155 Phenolic Molding Inorganic and glass fiber Filler, Compression Molded

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

### Material Notes:

Characteristics: Shock resistant, Electrical low loss, High mechanical strength, Heat stable, High electrical insulation, Dimensional stability, Good mechanical tension bearing strength, Good copper adhesion. Color: black, Medium/soft flow. Applications: Commutators ( small motors ), etc.

Information provided by Amity Thermosets Limited

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Amity-Thermosets-ATS-155-Phenolic-Molding-Inorganic-and-glass-fiber-Filler-Compression-Molded.php](http://www.lookpolymers.com/polymer_Amity-Thermosets-ATS-155-Phenolic-Molding-Inorganic-and-glass-fiber-Filler-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.60 - 1.70 g/cc	0.0578 - 0.0614 lb/in <sup>3</sup>	Molding; IS 867-1963
Apparent Bulk Density	0.650 - 0.720 g/cc	0.0235 - 0.0260 lb/in <sup>3</sup>	IS 867-1963
Water Absorption	0.20 - 0.35 %	0.20 - 0.35 %	IS 13411-1993
Linear Mold Shrinkage	0.0030 - 0.0038 cm/cm	0.0030 - 0.0038 in/in	IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 - 75.0 MPa	9430 - 10900 psi	5 mm/min.; IS 867-1963
Shear Strength	85.0 - 95.0 MPa	12300 - 13800 psi	IS 867-1963
Izod Impact, Notched	0.600 - 0.700 J/cm	1.12 - 1.31 ft-lb/in	IS 13411-1992

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.2e+11 - 1.0e+12 ohm-cm	3.2e+11 - 1.0e+12 ohm-cm	IS 3396-1979
Surface Resistance	1.00e+11 - 3.16e+11 ohm	1.00e+11 - 3.16e+11 ohm	IS 3396-1979
Dielectric Strength	6.50 - 8.00 kV/mm @Temperature 90.0 °C	165 - 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 Processing Properties	1.33 - 1.67 min Metric	0.0222 - 0.0278 hour English	per mm Comments
Shelf Life	4.00 Month	4.00 Month	10-25°C

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China