

## Amity Thermosets ATO 176 Phenolic Molding Organic and inorganic Filler, Compression Molded

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

### Material Notes:

Characteristics: Heat resistant ( asbestos free ) Good electric insulation Low shrinkage Low water absorption Medium mechanical strength Not suitable for high mechanical tension Color-black Medium flow Applications: Heat shields Oven knobs Toaster knobs Coffee machine base Thermal insulation Switchgear components which ought to withstand heat (200 OC), etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Amity-Thermosets-ATO-176-Phenolic-Molding-Organic-and-inorganic-Filler-Compression-Molded.php](http://www.lookpolymers.com/polymer_Amity-Thermosets-ATO-176-Phenolic-Molding-Organic-and-inorganic-Filler-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Density	1.44 - 1.53 g/cc	0.0520 - 0.0553 lb/in <sup>3</sup>	Molding; IS 867-1963
Apparent Bulk Density	0.690 - 0.720 g/cc	0.0249 - 0.0260 lb/in <sup>3</sup>	IS 867-1963
Water Absorption	0.20 - 0.30 %	0.20 - 0.30 %	IS 13411-1993
Linear Mold Shrinkage	0.0050 - 0.0065 cm/cm	0.0050 - 0.0065 in/in	Compression specimen; IS 13411-1992

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	42.0 - 58.0 MPa	6090 - 8410 psi	5 mm/min.; IS 867-1963
Shear Strength	55.0 - 70.0 MPa	7980 - 10200 psi	IS 867-1963
Izod Impact, Notched	0.250 - 0.350 J/cm	0.468 - 0.656 ft-lb/in	IS 13411-1992

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	>= 200 °C	>= 392 °F	2 hours

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.2e+10 - 1.0e+11 ohm-cm	3.2e+10 - 1.0e+11 ohm-cm	IS 3396-1979
Surface Resistance	3.2e+9 - 1.0e+10 ohm	3.2e+9 - 1.0e+10 ohm	IS 3396-1979
Dielectric Strength	4.00 - 5.50 kV/mm @Temperature 90.0 °C	102 - 140 kV/in @Temperature 194 °F	IS 2584-1963

Processing Properties	Metric	English	Comments
Mold Temperature			

Processing Properties	160 - 180 °C Metric	320 - 356 °F English	Comments
Injection Pressure	15.68 - 34.3 MPa	2274 - 4970 psi	Mold Pressure
Cure Time	0.783 - 0.917 min	0.0131 - 0.0153 hour	per mm
Shelf Life	12.0 Month	12.0 Month	10-25°C

## Contact Songhan Plastic Technology Co.,Ltd.

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