

# Amity Thermosets ATO 1510 Phenolic Molding 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 Medium copper adhesion Color-black, brown Medium flow Applications: Commutators Parts or components which ought to bear high mechanical, electrical & thermal tension , etc. Information provided by Amity Thermosets Limited

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Amity-Thermosets-ATO-1510-Phenolic-Molding-Glass-fiber-Filler-Compression-Molded.php](http://www.lookpolymers.com/polymer_Amity-Thermosets-ATO-1510-Phenolic-Molding-Glass-fiber-Filler-Compression-Molded.php)

| Physical Properties   | Metric                | English                            | Comments             |
|-----------------------|-----------------------|------------------------------------|----------------------|
| Density               | 1.70 - 1.82 g/cc      | 0.0614 - 0.0658 lb/in <sup>3</sup> | Molding; IS 867-1963 |
| Apparent Bulk Density | 0.550 - 0.710 g/cc    | 0.0199 - 0.0257 lb/in <sup>3</sup> | IS 867-1963          |
| Water Absorption      | 0.10 - 0.20 %         | 0.10 - 0.20 %                      | IS 13411-1993        |
| Linear Mold Shrinkage | 0.0020 - 0.0030 cm/cm | 0.0020 - 0.0030 in/in              | IS 13411-1992        |

| Mechanical Properties     | Metric             | English               | Comments               |
|---------------------------|--------------------|-----------------------|------------------------|
| Tensile Strength at Break | 55.0 - 70.0 MPa    | 7980 - 10200 psi      | 5 mm/min.; IS 867-1963 |
| Shear Strength            | 70.0 - 90.0 MPa    | 10200 - 13100 psi     | 2mm/min.; IS 867-1963  |
| Izod Impact, Notched      | 0.500 - 0.650 J/cm | 0.937 - 1.22 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        | 8.50 - 10.0 kV/mm<br>@Temperature 90.0 °C | 216 - 254 kV/in<br>@Temperature 194 °F | IS 2584-1963 |
| Comparative Tracking Index | >= 150 V                                  | >= 150 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             | 0.917 - 1.33 min | 0.0153 - 0.0222 hour | per mm        |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

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