

Plenco 2000 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 02000 is a versatile general purpose, organic filled phenolic molding compound, offering optimum cure characteristics and an excellent balance of molding properties. UL recognized under component file E40654. 02000 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2000-Phenolic-Granular-Compression-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density | 0.630 g/cc | 0.0228 lb/in ³ | ASTM D1895 |
| Density | 1.39 g/cc | 0.0502 lb/in ³ | ASTM D792 |
| Water Absorption | 0.40 % | 0.40 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0044 cm/cm | 0.0044 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|-----------------------------|------------------------------|
| Hardness, Rockwell E | 90 | 90 | ASTM D785 |
| Tensile Strength, Ultimate | 51.0 MPa | 7400 psi | ASTM D638 |
| Elongation at Break | 0.65 % | 0.65 % | ASTM D638 |
| Tensile Modulus | 8.60 GPa | 1250 ksi | ASTM D638 |
| Flexural Strength | 92.0 MPa | 13300 psi | ASTM D790 |
| Flexural Modulus | 8.10 GPa | 1170 ksi | ASTM D790 |
| Compressive Strength | 212 MPa | 30700 psi | ASTM D695 |
| Izod Impact, Notched | 0.174 J/cm | 0.326 ft-lb/in | ASTM D256 |
| Charpy Impact, Notched | 0.187 J/cm ² | 0.890 ft-lb/in ² | ASTM D256 |
| Impact | 109 | 109 | J/m Drop Ball Impact; PLENCO |

| Thermal Properties | Metric | English | Comments |
|----------------------|--|--|----------------|
| CTE, linear | 59.0 $\mu\text{m}/\text{m}\cdot\text{C}$ | 32.8 $\mu\text{in}/\text{in}\cdot\text{F}$ | TMA; ASTM E831 |
| | @Temperature 40.0 - 130 °C | @Temperature 104 - 266 °F | |
| Thermal Conductivity | 0.390 W/m-K | 2.71 BTU-in/hr-ft ² -°F | ASTM E1461 |

| Thermal Properties | @Temperature 100 °C Metric | @Temperature 212 °F English | Comments |
|--|-------------------------------|--------------------------------|-----------------------------|
| Maximum Service Temperature, Air | 207 °C | 405 °F | Heat Resistance; ASTM D570D |
| Deflection Temperature at 1.8 MPa (264 psi) | 176 °C | 349 °F | ASTM D648 |
| Flammability, UL94 | V-1 @Thickness 1.50 mm | V-1 @Thickness 0.0591 in | |
| Oxygen Index | 27.9 % | 27.9 % | ASTM D2863 |
| Shrinkage | 0.203 % | 0.203 % | 72 hr, 120°C; ASTM D1299 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 3.20e+11 ohm-cm | 3.20e+11 ohm-cm | ASTM D247 |
| Dielectric Constant | 5.2 | 5.2 | ASTM D150 |
| Dielectric Strength | 12.2 kV/mm | 310 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.052 | 0.052 | ASTM D150 |
| Arc Resistance | 132 sec | 132 sec | ASTM D495 |
| Comparative Tracking Index | 175 V | 175 V | ASTM D3638 |

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