

Plenco 7500 Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 07500 is an organic reinforced phenolic molding compound, offering improved mechanical strength and excellent cosmetic characteristics. Type ASTM 5948 CFG and UL recognized under component file E40654. 07500 is available in black or red color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7500-Phenolic-Granular-Compression-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density | 0.520 g/cc | 0.0188 lb/in ³ | ASTM D1895 |
| Density | 1.38 g/cc | 0.0499 lb/in ³ | ASTM D792 |
| Water Absorption | 0.49 % | 0.49 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0040 cm/cm | 0.0040 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|------------------------------|
| Hardness, Rockwell E | 92 | 92 | ASTM D785 |
| Tensile Strength, Ultimate | 58.0 MPa | 8410 psi | ASTM D638 |
| Elongation at Break | 0.76 % | 0.76 % | ASTM D638 |
| Tensile Modulus | 9.10 GPa | 1320 ksi | ASTM D638 |
| Flexural Strength | 97.0 MPa | 14100 psi | ASTM D790 |
| Flexural Modulus | 8.80 GPa | 1280 ksi | ASTM D790 |
| Compressive Strength | 219 MPa | 31800 psi | ASTM D695 |
| Izod Impact, Notched | 0.235 J/cm | 0.440 ft-lb/in | ASTM D256 |
| Charpy Impact, Notched | 0.233 J/cm ² | 1.11 ft-lb/in ² | ASTM D256 |
| Impact | 172 | 172 | J/m Drop Ball Impact; PLENCO |

| Thermal Properties | Metric | English | Comments |
|----------------------|--|--|----------------|
| CTE, linear | 61.0 $\mu\text{m}/\text{m}\cdot\text{C}$ | 33.9 $\mu\text{in}/\text{in}\cdot\text{F}$ | TMA; ASTM E831 |
| | @Temperature 40.0 - 130 °C | @Temperature 104 - 266 °F | |
| Thermal Conductivity | 0.360 W/m-K | 2.50 BTU-in/hr-ft ² -°F | ASTM E1461 |

| Thermal Properties | @Temperature 100 °C Metric | @Temperature 212 °F English | Comments |
|--|-------------------------------|--------------------------------|-----------------------------|
| Maximum Service Temperature, Air | 196 °C | 385 °F | Heat Resistance; ASTM D570D |
| Deflection Temperature at 1.8 MPa (264 psi) | 176 °C | 349 °F | ASTM D648 |
| Flammability, UL94 | HB @Thickness 1.50 mm | HB @Thickness 0.0591 in | |
| Oxygen Index | 25.3 % | 25.3 % | ASTM D2863 |
| Shrinkage | 0.145 % | 0.145 % | 72 hr, 120°C; ASTM D1299 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 2.30e+12 ohm-cm | 2.30e+12 ohm-cm | ASTM D247 |
| Dielectric Constant | 4.6 | 4.6 | ASTM D150 |
| Dielectric Strength | 16.7 kV/mm | 424 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.037 | 0.037 | ASTM D150 |
| Arc Resistance | 88 sec | 88 sec | ASTM D495 |
| Comparative Tracking Index | 175 V | 175 V | ASTM D3638 |

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