

Plenco 6990 Phenolic, Briquette, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Glass Filled

Material Notes:

PLENCO 06990 is a glass and mineral filled novolac phenolic molding compound. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6990-Phenolic-Briquette-Compression-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density | 0.770 g/cc | 0.0278 lb/in ³ | ASTM D1895 |
| Density | 1.78 g/cc | 0.0643 lb/in ³ | ASTM D792 |
| Water Absorption | 0.080 % | 0.080 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0017 cm/cm | 0.0017 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|------------------------------|
| Hardness, Rockwell E | 86 | 86 | ASTM D785 |
| Tensile Strength, Ultimate | 51.0 MPa | 7400 psi | ASTM D638 |
| Elongation at Break | 0.33 % | 0.33 % | ASTM D638 |
| Tensile Modulus | 16.8 GPa | 2440 ksi | ASTM D638 |
| Flexural Strength | 65.0 MPa | 9430 psi | ASTM D790 |
| Flexural Modulus | 13.5 GPa | 1960 ksi | ASTM D790 |
| Compressive Strength | 172 MPa | 24900 psi | ASTM D695 |
| Izod Impact, Notched | 0.410 J/cm | 0.768 ft-lb/in | ASTM D256 |
| Charpy Impact, Notched | 0.510 J/cm ² | 2.43 ft-lb/in ² | ASTM D256 |
| Impact | 272 | 272 | J/m Drop Ball Impact; PLENCO |

| Thermal Properties | Metric | English | Comments |
|---|---------------------|----------------------|-----------------------------|
| Maximum Service Temperature, Air | 250 °C | 482 °F | Heat Resistance; ASTM D570D |
| Deflection Temperature at 1.8 MPa (264 psi) | 266 °C | 511 °F | ASTM D648 |
| Flammability, UL94 | V-0 | V-0 | |
| | @Thickness 0.500 mm | @Thickness 0.0197 in | |

| Shrinkage Thermal Properties | 0.00060 % Metric | 0.00060 % English | 72 hr, 120°C; ASTM D1299 Comments |
|--|---------------------|----------------------|--------------------------------------|
| Electrical Properties | Metric | English | Comments |
| Volume Resistivity | 8.00e+11 ohm-cm | 8.00e+11 ohm-cm | ASTM D247 |
| Dielectric Constant | 5.6 | 5.6 | ASTM D150 |
| Dielectric Strength | 15.2 kV/mm | 386 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.038 | 0.038 | ASTM D150 |
| Arc Resistance | 184 sec | 184 sec | ASTM D495 |
| Comparative Tracking Index | 250 V | 250 V | ASTM D3638 |

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