

Plenco 7487 Phenolic, Granular, Transfer Molded

Category : Polymer , Thermoset , Phenolic , Phenolic/Rubber; Molded

Material Notes:

PLENCO 07487 is a rubber modified organic reinforced phenolic molding compound offering improved mechanical strength and lower modulus. Plenco 07487 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7487-Phenolic-Granular-Transfer-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density | 0.550 g/cc | 0.0199 lb/in ³ | ASTM D1895 |
| Density | 1.34 g/cc | 0.0484 lb/in ³ | ASTM D792 |
| Water Absorption | 0.92 % | 0.92 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0079 cm/cm | 0.0079 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|------------------------------|
| Hardness, Rockwell E | 76 | 76 | ASTM D785 |
| Tensile Strength, Ultimate | 34.0 MPa | 4930 psi | ASTM D638 |
| Elongation at Break | 1.47 % | 1.47 % | ASTM D638 |
| Tensile Modulus | 4.50 GPa | 653 ksi | ASTM D638 |
| Flexural Strength | 56.0 MPa | 8120 psi | ASTM D790 |
| Flexural Modulus | 3.60 GPa | 522 ksi | ASTM D790 |
| Compressive Strength | 82.0 MPa | 11900 psi | ASTM D695 |
| Izod Impact, Notched | 0.233 J/cm | 0.437 ft-lb/in | ASTM D256 |
| Charpy Impact, Notched | 0.281 J/cm ² | 1.34 ft-lb/in ² | ASTM D256 |
| Impact | 262 | 262 | J/m Drop Ball Impact; PLENCO |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------------|
| Maximum Service Temperature, Air | 217 °C | 423 °F | Heat Resistance; ASTM D570D |
| Deflection Temperature at 1.8 MPa (264 psi) | 136 °C | 277 °F | ASTM D648 |
| Oxygen Index | 24.6 % | 24.6 % | ASTM D2863 |
| Shrinkage | 0.39 % | 0.39 % | 72 hr, 120°C; ASTM D1299 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 2.00e+11 ohm-cm | 2.00e+11 ohm-cm | ASTM D247 |
| Dielectric Constant | 4.5 | 4.5 | ASTM D150 |
| Dielectric Strength | 11.5 kV/mm | 292 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.081 | 0.081 | ASTM D150 |
| Arc Resistance | 67 sec | 67 sec | ASTM D495 |
| Comparative Tracking Index | 150 V | 150 V | ASTM D3638 |

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