

Plenco 4527 Phenolic, Granular, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Mineral/Flock Filled

Material Notes:

PLENCO 04527 is a heat resistant, mineral and flock filled phenolic molding compound, offering excellent mechanical strength, and resistance to cracking in a wet-dry environment. UL recognized under component file E40654. 04527 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4527-Phenolic-Granular-Transfer-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density | 0.630 g/cc | 0.0228 lb/in ³ | ASTM D1895 |
| Density | 1.59 g/cc | 0.0574 lb/in ³ | ASTM D792 |
| Water Absorption | 0.56 % | 0.56 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0034 cm/cm | 0.0034 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|----------------------------|------------------------------|
| Hardness, Rockwell E | 67 | 67 | ASTM D785 |
| Tensile Strength, Ultimate | 58.0 MPa | 8410 psi | ASTM D638 |
| Elongation at Break | 1.11 % | 1.11 % | ASTM D638 |
| Tensile Modulus | 9.50 GPa | 1380 ksi | ASTM D638 |
| Flexural Strength | 83.0 MPa | 12000 psi | ASTM D790 |
| Flexural Modulus | 9.20 GPa | 1330 ksi | ASTM D790 |
| Compressive Strength | 163 MPa | 23600 psi | ASTM D695 |
| Izod Impact, Notched | 0.271 J/cm | 0.508 ft-lb/in | ASTM D256 |
| Charpy Impact, Notched | 0.251 J/cm ² | 1.19 ft-lb/in ² | ASTM D256 |
| Impact | 147 | 147 | J/m Drop Ball Impact; PLENCO |

| Thermal Properties | Metric | English | Comments |
|---|--------|---------|-----------------------------|
| Maximum Service Temperature, Air | 210 °C | 410 °F | Heat Resistance; ASTM D570D |
| Deflection Temperature at 1.8 MPa (264 psi) | 240 °C | 464 °F | ASTM D648 |
| Flammability, UL94 | V-1 | V-1 | |

| Thermal Properties | @Thickness 1.50 mm Metric | @Thickness 0.0591 in English | Comments |
|--------------------|------------------------------|---------------------------------|--------------------------|
| Oxygen Index | 35 % | 35 % | ASTM D2863 |
| Shrinkage | 0.40 % | 0.40 % | 72 hr, 120°C; ASTM D1299 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 4.90e+11 ohm-cm | 4.90e+11 ohm-cm | ASTM D247 |
| Dielectric Constant | 7.9 | 7.9 | ASTM D150 |
| Dielectric Strength | 6.90 kV/mm | 175 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.12 | 0.12 | ASTM D150 |
| Arc Resistance | 184 sec | 184 sec | ASTM D495 |
| Comparative Tracking Index | 200 V | 200 V | ASTM D3638 |

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