

Plenco 4349 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 04349 is a heat resistant, mineral filled phenolic molding compound offering optimized cure characteristics, and excellent heat resistant properties. PLENCO 04349 is also formulated to offer exceptional cosmetic characteristics in the molded product. UL recognized under component file E40654. 04349 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4349-Phenolic-Granular-Transfer-Molded.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--------------|---------------------------|------------|
| Bulk Density | 0.640 g/cc | 0.0231 lb/in ³ | ASTM D1895 |
| Density | 1.56 g/cc | 0.0564 lb/in ³ | ASTM D792 |
| Water Absorption | 0.118 % | 0.118 % | ASTM D570 |
| Linear Mold Shrinkage | 0.0043 cm/cm | 0.0043 in/in | ASTM D955 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-------------------------|-----------------------------|------------------------------|
| Hardness, Rockwell E | 91 | 91 | ASTM D785 |
| Tensile Strength, Ultimate | 51.0 MPa | 7400 psi | ASTM D638 |
| Elongation at Break | 0.71 % | 0.71 % | ASTM D638 |
| Tensile Modulus | 9.40 GPa | 1360 ksi | ASTM D638 |
| Flexural Strength | 77.0 MPa | 11200 psi | ASTM D790 |
| Flexural Modulus | 9.10 GPa | 1320 ksi | ASTM D790 |
| Compressive Strength | 197 MPa | 28600 psi | ASTM D695 |
| Izod Impact, Notched | 0.155 J/cm | 0.290 ft-lb/in | ASTM D256 |
| Charpy Impact, Notched | 0.188 J/cm ² | 0.895 ft-lb/in ² | ASTM D256 |
| Impact | 97 | 97 | J/m Drop Ball Impact; PLENCO |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|--|--|-----------------------------|
| CTE, linear | 38.0 $\mu\text{m}/\text{m}\cdot\text{C}$ | 21.1 $\mu\text{in}/\text{in}\cdot\text{F}$ | TMA; ASTM E831 |
| | @Temperature 40.0 - 130 °C | @Temperature 104 - 266 °F | |
| Maximum Service Temperature, Air | 213 °C | 415 °F | Heat Resistance; ASTM D570D |

| Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small> | 211 °C Metric | 412 °F English | ASTM D247 Comments |
|--|-------------------------------|---------------------------------|--------------------------|
| Flammability, UL94 | V-1 @Thickness 1.50 mm | V-1 @Thickness 0.0591 in | |
| Shrinkage | 0.173 % | 0.173 % | 72 hr, 120°C; ASTM D1299 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|-----------------|-----------------|-----------------------|
| Volume Resistivity | 1.90e+11 ohm-cm | 1.90e+11 ohm-cm | ASTM D247 |
| Dielectric Constant | 5.8 | 5.8 | ASTM D150 |
| Dielectric Strength | 11.1 kV/mm | 282 kV/in | Short Time; ASTM D149 |
| Dissipation Factor | 0.063 | 0.063 | ASTM D150 |
| Arc Resistance | 170 sec | 170 sec | ASTM D495 |
| Comparative Tracking Index | 175 V | 175 V | ASTM D3638 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China