

Plenco 4349 Phenolic, Granular, Compression 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-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Water Absorption	0.109 %	0.109 %	ASTM D570
Linear Mold Shrinkage	0.00251 cm/cm	0.00251 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	46.0 MPa	6670 psi	ASTM D638
Elongation at Break	0.50 %	0.50 %	ASTM D638
Tensile Modulus	9.80 GPa	1420 ksi	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Strength	195 MPa	28300 psi	ASTM D695
Izod Impact, Notched	0.140 J/cm	0.262 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.187 J/cm ²	0.890 ft-lb/in ²	ASTM D256
Impact	78	78	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	40.0 μm/m-°C	22.2 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.510 W/m-K	3.54 BTU-in/hr-ft ² -°F	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	232 °C	450 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	206 °C	403 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	45 %	45 %	ASTM D2863
Shrinkage	0.143 %	0.143 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.60e+11 ohm-cm	7.60e+11 ohm-cm	ASTM D247
Dielectric Constant	5.9	5.9	ASTM D150
Dielectric Strength	11.6 kV/mm	295 kV/in	Short Time; ASTM D149
Dissipation Factor	0.051	0.051	ASTM D150
Arc Resistance	177 sec	177 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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