

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

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in ³	ASTM D1895
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Water Absorption	0.099 %	0.099 %	ASTM D570
Linear Mold Shrinkage	0.0066 cm/cm	0.0066 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	84	84	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.65 %	0.65 %	ASTM D638
Tensile Modulus	9.40 GPa	1360 ksi	ASTM D638
Flexural Strength	78.0 MPa	11300 psi	ASTM D790
Flexural Modulus	8.60 GPa	1250 ksi	ASTM D790
Compressive Strength	186 MPa	27000 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.53 GPa	512 ksi	Calculated
Izod Impact, Notched	0.144 J/cm	0.270 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.158 J/cm ²	0.752 ft-lb/in ²	ASTM D256
Impact	74	74	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	36.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	20.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.470 W/m-K @Temperature 100 °C	3.26 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	216 °C	421 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	161 °C	322 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	34 %	34 %	ASTM D2863
Shrinkage	0.163 %	0.163 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.60e+11 ohm-cm	6.60e+11 ohm-cm	ASTM D247
Dielectric Constant	5.6	5.6	ASTM D150
Dielectric Strength	10.0 kV/mm	254 kV/in	Short Time; ASTM D149
Dissipation Factor	0.053	0.053	ASTM D150
Arc Resistance	166 sec	166 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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