

Plenco 2308 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 02308 is a general purpose organic filled phenolic molding compound, offering improved heat resistance and optimized cure properties. UL recognized under component file E40654. 02308 is available in black or brown color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2308-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in ³	ASTM D1895
Density	1.42 g/cc	0.0513 lb/in ³	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.0102 cm/cm	0.0102 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.76 %	0.76 %	ASTM D638
Tensile Modulus	8.60 GPa	1250 ksi	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Compressive Strength	191 MPa	27700 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.19 GPa	463 ksi	Calculated
Izod Impact, Notched	0.155 J/cm	0.290 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.184 J/cm ²	0.876 ft-lb/in ²	ASTM D256
Impact	88	88	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	59.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @ Temperature 40.0 - 130 °C	32.8 $\mu\text{in}/\text{in}\cdot\text{°F}$ @ Temperature 104 - 266 °F	TMA; ASTM E831

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	142 °C	288 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	24.5 %	24.5 %	ASTM D2863
Shrinkage	0.32 %	0.32 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.60e+11 ohm-cm	4.60e+11 ohm-cm	ASTM D247
Dielectric Constant	4.9	4.9	ASTM D150
Dielectric Strength	11.4 kV/mm	290 kV/in	Short Time; ASTM D149
Dissipation Factor	0.053	0.053	ASTM D150
Arc Resistance	142 sec	142 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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