

Plenco 2308 Phenolic, Granular, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in ³	ASTM D1895
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	54.0 MPa	7830 psi	ASTM D638
Elongation at Break	0.74 %	0.74 %	ASTM D638
Tensile Modulus	8.20 GPa	1190 ksi	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	ASTM D790
Compressive Strength	207 MPa	30000 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.04 GPa	441 ksi	Calculated
Izod Impact, Notched	0.184 J/cm	0.345 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.199 J/cm ²	0.947 ft-lb/in ²	ASTM D256
Impact	100	100	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	69.0 $\mu\text{m/m-}^{\circ}\text{C}$	38.3 $\mu\text{in/in-}^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	174 °C	345 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	26.1 %	26.1 %	ASTM D2863
Shrinkage	0.267 %	0.267 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.60e+11 ohm-cm	1.60e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	11.6 kV/mm	295 kV/in	Short Time; ASTM D149
Dissipation Factor	0.055	0.055	ASTM D150
Arc Resistance	144 sec	144 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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