

Plenco 2408 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Wood Filled

Material Notes:

PLENCO 02408 is a general purpose, organic filled phenolic molding compound, offering excellent cosmetic characteristics and improved electrical strength properties. UL recognized under component file E40654. 02408 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2408-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in ³	ASTM D1895
Density	1.40 g/cc	0.0506 lb/in ³	ASTM D792
Water Absorption	0.47 %	0.47 %	ASTM D570
Linear Mold Shrinkage	0.0044 cm/cm	0.0044 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	0.68 %	0.68 %	ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Compressive Strength	207 MPa	30000 psi	ASTM D695
Izod Impact, Notched	0.188 J/cm	0.352 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.188 J/cm ²	0.895 ft-lb/in ²	ASTM D256
Impact	122	122	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 $\mu\text{m}/\text{m}\cdot\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.400 W/m-K	2.78 BTU-in/hr-ft ² -°F	ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	

Maximum Service Temperature, Air Thermal Properties	193 °C Metric	379 °F English	Heat Resistance; ASTM D570D Comments
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	
Oxygen Index	27.6 %	27.6 %	ASTM D2863
Shrinkage	0.208 %	0.208 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+12 ohm-cm	1.20e+12 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	14.2 kV/mm	361 kV/in	Short Time; ASTM D149
Dissipation Factor	0.051	0.051	ASTM D150
Arc Resistance	136 sec	136 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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