

Plenco 2408 Phenolic, Granular, Injection 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-Injection-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	0.36 %	0.36 %	ASTM D570
Linear Mold Shrinkage	0.0101 cm/cm	0.0101 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	8.40 GPa	1220 ksi	ASTM D638
Flexural Strength	77.0 MPa	11200 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Strength	213 MPa	30900 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	3.13 GPa	454 ksi	Calculated
Izod Impact, Notched	0.183 J/cm	0.343 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.188 J/cm ²	0.895 ft-lb/in ²	ASTM D256
Impact	100	100	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	54.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	30.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@ Temperature 40.0 - 130 °C	@ Temperature 104 - 266 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	158 °C	316 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	
Shrinkage	0.33 %	0.33 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+12 ohm-cm	1.70e+12 ohm-cm	ASTM D247
Dielectric Constant	4.4	4.4	ASTM D150
Dielectric Strength	10.1 kV/mm	257 kV/in	Short Time; ASTM D149
Dissipation Factor	0.047	0.047	ASTM D150
Arc Resistance	134 sec	134 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China