

Plenco 00732 Melamine-Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Melamine , Melamine-Phenolic Copolymer , Phenolic

Material Notes:

PLENCO 00732 is a melamine-phenolic copolymer molding compound, exhibiting excellent electrical and flame resistant properties. Type ASTM 5948 CMG, and UL recognized under component file E40654. 00732 is available in a wide range of colors. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-00732-Melamine-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in ³	ASTM D1895
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.36 %	0.36 %	ASTM D570
Linear Mold Shrinkage	0.0054 cm/cm	0.0054 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	76.0 MPa	11000 psi	ASTM D638
Elongation at Break	0.88 %	0.88 %	ASTM D638
Tensile Modulus	9.20 GPa	1330 ksi	ASTM D638
Flexural Strength	108 MPa	15700 psi	ASTM D790
Flexural Modulus	9.20 GPa	1330 ksi	ASTM D790
Compressive Strength	204 MPa	29600 psi	ASTM D695
Izod Impact, Notched	0.206 J/cm	0.386 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.221 J/cm ²	1.05 ft-lb/in ²	ASTM D256
Impact	118	118	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.510 W/m-K @Temperature 100 °C	3.54 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	150 °C	302 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa			ASTM D648

(264 psi) Thermal Properties	197 °C Metric	387 °F English	Comments
Flammability, UL94	V-0 @Thickness 0.610 mm	V-0 @Thickness 0.0240 in	
Oxygen Index	33 %	33 %	ASTM D2863
Shrinkage	0.83 %	0.83 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.50e+13 ohm-cm	3.50e+13 ohm-cm	ASTM D247
Dielectric Constant	6.8	6.8	ASTM D150
Dielectric Strength	9.80 kV/mm	249 kV/in	Step by Step; ASTM D149
	12.9 kV/mm	328 kV/in	Short Time; ASTM D149
Dissipation Factor	0.051	0.051	ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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