

Plenco 00732 Melamine-Phenolic, Granular, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in ³	ASTM D1895
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.46 %	0.46 %	ASTM D570
Linear Mold Shrinkage	0.0093 cm/cm	0.0093 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	85	85	ASTM D785
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ASTM D638
Elongation at Break	0.89 %	0.89 %	ASTM D638
Tensile Modulus	9.00 GPa	1310 ksi	ASTM D638
Flexural Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	ASTM D790
Compressive Strength	194 MPa	28100 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	3.31 GPa	480 ksi	Calculated
Izod Impact, Notched	0.168 J/cm	0.315 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.216 J/cm ²	1.03 ft-lb/in ²	ASTM D256
Impact	106	106	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C	29.4 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	140 °C	284 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	186 °C	367 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.610 mm	V-0 @Thickness 0.0240 in	
Oxygen Index	33 %	33 %	ASTM D2863
Shrinkage	1.24 %	1.24 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.70e+12 ohm-cm	9.70e+12 ohm-cm	ASTM D247
Dielectric Constant	7.7	7.7	ASTM D150
Dielectric Strength	6.00 kV/mm	152 kV/in	Step by Step; ASTM D149
	9.20 kV/mm	234 kV/in	Short Time; ASTM D149
Dissipation Factor	0.064	0.064	ASTM D150
Arc Resistance	185 sec	185 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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