

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

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in ³	ASTM D1895
Density	1.57 g/cc	0.0567 lb/in ³	ASTM D792
Water Absorption	0.45 %	0.45 %	ASTM D570
Linear Mold Shrinkage	0.0097 cm/cm	0.0097 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	70.0 MPa	10200 psi	ASTM D638
Elongation at Break	0.95 %	0.95 %	ASTM D638
Tensile Modulus	8.90 GPa	1290 ksi	ASTM D638
Flexural Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	7.70 GPa	1120 ksi	ASTM D790
Compressive Strength	188 MPa	27300 psi	ASTM D695
Izod Impact, Notched	0.181 J/cm	0.339 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.196 J/cm ²	0.933 ft-lb/in ²	ASTM D256
Impact	110	110	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	137 °C	279 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	351 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 0.610 mm Metric	@Thickness 0.0240 in English	Comments
Shrinkage	1.42 %	1.42 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D247
Dielectric Constant	7.6	7.6	ASTM D150
Dielectric Strength	6.20 kV/mm	157 kV/in	Step by Step; ASTM D149
	9.30 kV/mm	236 kV/in	Short Time; ASTM D149
Dissipation Factor	0.064	0.064	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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