

Plenco 00757 Melamine-Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 00757 is a melamine-phenolic, copolymer molding compound, offering excellent arc resistance and comparative track index values. It is formulated to provide improved mechanical strength properties. Type ASTM 5948 CMG, and UL recognized under component file E40654. 00757 is available only in brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-00757-Melamine-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.70 g/cc	0.0614 lb/in ³	ASTM D792
Water Absorption	0.285 %	0.285 %	ASTM D570
Linear Mold Shrinkage	0.0057 cm/cm	0.0057 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	67	67	ASTM D785
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	0.71 %	0.71 %	ASTM D638
Tensile Modulus	11.8 GPa	1710 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	9.90 GPa	1440 ksi	ASTM D790
Compressive Strength	142 MPa	20600 psi	ASTM D695
Izod Impact, Notched	0.205 J/cm	0.384 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.217 J/cm ²	1.03 ft-lb/in ²	ASTM D256
Impact	132	132	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.610 W/m-K @Temperature 100 °C	4.23 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	144 °C	291 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa			ASTM D648

(264 psi) Thermal Properties	174 °C Metric	345 °F English	Comments
Flammability, UL94	V-0 @Thickness 1.00 mm	V-0 @Thickness 0.0394 in	
Oxygen Index	36 %	36 %	ASTM D2863
Shrinkage	0.95 %	0.95 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.30e+11 ohm-cm	6.30e+11 ohm-cm	ASTM D247
Dielectric Constant	7.6	7.6	ASTM D150
Dielectric Strength	5.50 kV/mm	140 kV/in	Step by Step; ASTM D149
	7.80 kV/mm	198 kV/in	Short Time; ASTM D149
Dissipation Factor	0.114	0.114	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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