

Plenco 00757 Melamine-Phenolic, Granular, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.71 g/cc	0.0618 lb/in ³	ASTM D792
Water Absorption	0.28 %	0.28 %	ASTM D570
Linear Mold Shrinkage	0.0049 cm/cm	0.0049 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	73	73	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.47 %	0.47 %	ASTM D638
Tensile Modulus	12.7 GPa	1840 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	11.1 GPa	1610 ksi	ASTM D790
Compressive Strength	155 MPa	22500 psi	ASTM D695
Izod Impact, Notched	0.215 J/cm	0.403 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.239 J/cm ²	1.14 ft-lb/in ²	ASTM D256
Impact	125	125	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	165 °C	329 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	187 °C	369 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.00 mm Metric	@Thickness 0.0394 in English	Comments
Shrinkage	0.36 %	0.36 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+12 ohm-cm	1.30e+12 ohm-cm	ASTM D247
Dielectric Constant	6.8	6.8	ASTM D150
Dielectric Strength	6.80 kV/mm	173 kV/in	Step by Step; ASTM D149
	9.50 kV/mm	241 kV/in	Short Time; ASTM D149
Dissipation Factor	0.069	0.069	ASTM D150
Arc Resistance	188 sec	188 sec	ASTM D495
Comparative Tracking Index	600 V	600 V	ASTM D3638

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