

Plenco 00755 Melamine-Phenolic, Granular, Compression Molded

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

Material Notes:

PLENCO 00755 is a melamine-phenolic copolymer molding compound offering excellent electrical and flame resistant properties. Type ASTM 5948 CMG, and UL recognized under component file E40654. 00755 is available only in brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-00755-Melamine-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.580 g/cc	0.0210 lb/in ³	ASTM D1895
Density	1.60 g/cc	0.0578 lb/in ³	ASTM D792
Water Absorption	0.36 %	0.36 %	ASTM D570
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	71	71	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.64 %	0.64 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Compressive Strength	165 MPa	23900 psi	ASTM D695
Izod Impact, Notched	0.201 J/cm	0.377 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.221 J/cm ²	1.05 ft-lb/in ²	ASTM D256
Impact	148	148	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.580 W/m-K @Temperature 100 °C	4.03 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	152 °C	306 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	184 °C	363 °F	ASTM D648

Thermal Properties Flammability, UL94	V-0 Metric	V-0 English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	33 %	33 %	ASTM D2863
Shrinkage	0.89 %	0.89 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.80e+13 ohm-cm	1.80e+13 ohm-cm	ASTM D247
Dielectric Constant	6.5	6.5	ASTM D150
Dielectric Strength	8.50 kV/mm	216 kV/in	Step by Step; ASTM D149
	12.0 kV/mm	305 kV/in	Short Time; ASTM D149
Dissipation Factor	0.054	0.054	ASTM D150
Arc Resistance	186 sec	186 sec	ASTM D495
Comparative Tracking Index	425 V	425 V	ASTM D3638

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