

Plenco 00714 Melamine-Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 00714 is a melamine-phenolic copolymer molding compound, offering excellent arc resistance and comparative track index values. Type ASTM D 5948 CMG, and UL recognized under component file E40654. 00714 is available in brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-00714-Melamine-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.720 g/cc	0.0260 lb/in ³	ASTM D1895
Density	1.65 g/cc	0.0596 lb/in ³	ASTM D792
Water Absorption	0.286 %	0.286 %	ASTM D570
Linear Mold Shrinkage	0.0068 cm/cm	0.0068 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	71	71	ASTM D785
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	0.70 %	0.70 %	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	9.90 GPa	1440 ksi	ASTM D790
Compressive Strength	151 MPa	21900 psi	ASTM D695
Poissons Ratio	0.31	0.31	ASTM D638
Shear Modulus	4.20 GPa	609 ksi	Calculated
Izod Impact, Notched	0.159 J/cm	0.298 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.165 J/cm ²	0.785 ft-lb/in ²	ASTM D256
Impact	85	85	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 μm/m-°C	28.9 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	142 °C	288 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	180 °C	356 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Shrinkage	0.90 %	0.90 %	240 hr, 105°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.70e+12 ohm-cm	3.70e+12 ohm-cm	ASTM D247
Dielectric Constant	6.9	6.9	ASTM D150
Dielectric Strength	6.30 kV/mm	160 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	186 sec	186 sec	ASTM D495
Comparative Tracking Index	575 V	575 V	ASTM D3638

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