

Plenco 00714 Melamine-Phenolic, Granular, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ASTM D1895
Density	1.67 g/cc	0.0603 lb/in ³	ASTM D792
Water Absorption	0.275 %	0.275 %	ASTM D570
Linear Mold Shrinkage	0.0055 cm/cm	0.0055 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	76	76	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.57 %	0.57 %	ASTM D638
Tensile Modulus	11.8 GPa	1710 ksi	ASTM D638
Flexural Strength	97.0 MPa	14100 psi	ASTM D790
Flexural Modulus	9.80 GPa	1420 ksi	ASTM D790
Compressive Strength	164 MPa	23800 psi	ASTM D695
Izod Impact, Notched	0.162 J/cm	0.303 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.199 J/cm ²	0.947 ft-lb/in ²	ASTM D256
Impact	81	81	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			ASTM D648

(264 psi) Thermal Properties	202 °C Metric	396 °F English	Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	36 %	36 %	ASTM D2863
Shrinkage	0.69 %	0.69 %	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	7.0	7.0	ASTM D150
Dielectric Strength	6.60 kV/mm	168 kV/in	Step by Step; ASTM D149
	9.30 kV/mm	236 kV/in	Short Time; ASTM D149
Dissipation Factor	0.062	0.062	ASTM D150
Arc Resistance	186 sec	186 sec	ASTM D495
Comparative Tracking Index	475 V	475 V	ASTM D3638

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