

Plenco 4414 Phenolic, Granular, Injection Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Flock Filled

Material Notes:

PLENCO 04414 is a flock and mineral filled phenolic molding compound. It is formulated for use in electrical applications that require improved heat resistance, mechanical strength, and dimensional stability. UL recognized under component file E40654. 04414 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4414-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in ³	ASTM D1895
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Water Absorption	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage	0.0068 cm/cm	0.0068 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	79	79	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	10.1 GPa	1460 ksi	ASTM D638
Flexural Strength	82.0 MPa	11900 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Compressive Strength	177 MPa	25700 psi	ASTM D695
Izod Impact, Notched	0.166 J/cm	0.311 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.203 J/cm ²	0.966 ft-lb/in ²	ASTM D256
Impact	118	118	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	ASTM D648
Flammability, UL94	V-1	V-1	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.24 %	0.24 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	8.40e+11 ohm-cm	8.40e+11 ohm-cm	ASTM D247
Dielectric Constant	5.3	5.3	ASTM D150
Dielectric Strength	12.5 kV/mm	318 kV/in	Short Time; ASTM D149
Dissipation Factor	0.051	0.051	ASTM D150
Arc Resistance	151 sec	151 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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