

Plenco 4504 Phenolic, Granular, Injection Molded

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

Material Notes:

Plenco 04504 is a renumber of Plaslok 504. Plenco 04504 is a two-stage, mineral and cellulose-filled phenolic molding compound having better impact and heat resistance than general purpose molding compounds. Since it also has good electrical properties, it has found use in a wide variety of wiring device applications. It is UL recognized under file E40654. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4504-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in ³	ASTM D1895
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.224 %	0.224 %	ASTM D570
Linear Mold Shrinkage	0.0069 cm/cm	0.0069 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	78	78	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.70 %	0.70 %	ASTM D638
Tensile Modulus	9.90 GPa	1440 ksi	ASTM D638
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Compressive Strength	173 MPa	25100 psi	ASTM D695
Izod Impact, Notched	0.171 J/cm	0.320 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.168 J/cm ²	0.800 ft-lb/in ²	ASTM D256
Impact	99	99	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	196 °C	385 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	179 °C	354 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.299 %	0.299 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+11 ohm-cm	3.00e+11 ohm-cm	ASTM D247
Dielectric Constant	5.6	5.6	ASTM D150
Dielectric Strength	10.5 kV/mm	267 kV/in	Short Time; ASTM D149
Dissipation Factor	0.074	0.074	ASTM D150
Arc Resistance	177 sec	177 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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