

Plenco 6527 Phenolic, Granular, Injection Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Resole, Mineral/Wood Filled

Material Notes:

PLENCO 06527 is a woodflour and mineral filled resole phenolic molding compound. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6527-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.580 g/cc	0.0210 lb/in ³	ASTM D1895
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Water Absorption	0.37 %	0.37 %	ASTM D570
Linear Mold Shrinkage	0.0046 cm/cm	0.0046 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	48	48	ASTM D785
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Elongation at Break	0.73 %	0.73 %	ASTM D638
Tensile Modulus	10.7 GPa	1550 ksi	ASTM D638
Flexural Strength	73.0 MPa	10600 psi	ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	ASTM D790
Compressive Strength	127 MPa	18400 psi	ASTM D695
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.215 J/cm ²	1.02 ft-lb/in ²	ASTM D256
Impact	173	173	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	188 °C	370 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	194 °C	381 °F	ASTM D648
Shrinkage	0.31 %	0.31 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.80e+12 ohm-cm Metric	1.80e+12 ohm-cm English	ASTM D247 Comments
Dielectric Constant	6.6	6.6	ASTM D150
Dielectric Strength	8.80 kV/mm	224 kV/in	Short Time; ASTM D149
Dissipation Factor	0.083	0.083	ASTM D150
Arc Resistance	153 sec	153 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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