

Plenco 7527 Phenolic, Nodular, Injection Molded (discontinued **)

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

Material Notes:

Single-Stage Phenolic. PLENCO 07527 is a flock cotton and mineral filled resole phenolic molding compound. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7527-Phenolic-Nodular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ASTM D792
Apparent Bulk Density	0.610 g/cc	0.0220 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.47 %	0.47 %	ASTM D570
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	ATM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	62	62	ASTM D785
Tensile Strength, Ultimate	51.1 MPa	7410 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Tensile Modulus	8.70 GPa	1260 ksi	ASTM D638
Flexural Yield Strength	79.5 MPa	11500 psi	ASTM D790
Flexural Modulus	8.01 GPa	1160 ksi	ASTM D790
Compressive Yield Strength	162.4 MPa	23550 psi	ASTM D695
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.210 J/cm ²	0.999 ft-lb/in ²	ASTM D256
Impact	170	170	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	188 °C	370 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	199 °C	390 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 3.10 mm	V-0 @Thickness 0.122 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.015e+11 ohm-cm	2.015e+11 ohm-cm	ASTM D257
Dielectric Constant	7.8 @Frequency 1e+6 Hz	7.8 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	8.00 kV/mm	203 kV/in	Short Time; ASTM D149
Dissipation Factor	0.099 @Frequency 1e+6 Hz	0.099 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	190 sec	190 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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