

Plenco 7321 Phenolic, Nodular, Injection Molded

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

Material Notes:

PLENCO 07321 is an organic fiber reinforced phenolic molding compound, offering improved mechanical strength and excellent dimensional stability. Type ASTM 5948 CFI-5, and UL recognized under component file E40654. 07321 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7321-Phenolic-Nodular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.570 g/cc	0.0206 lb/in ³	ASTM D1895
Density	1.39 g/cc	0.0502 lb/in ³	ASTM D792
Water Absorption	0.41 %	0.41 %	ASTM D570
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	69	69	ASTM D785
Tensile Strength, Ultimate	36.0 MPa	5220 psi	ASTM D638
Elongation at Break	0.71 %	0.71 %	ASTM D638
Tensile Modulus	7.30 GPa	1060 ksi	ASTM D638
Flexural Strength	61.0 MPa	8850 psi	ASTM D790
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
Compressive Strength	139 MPa	20200 psi	ASTM D695
Izod Impact, Notched	0.277 J/cm	0.519 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.289 J/cm ²	1.38 ft-lb/in ²	ASTM D256
Impact	224	224	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	190 °C	374 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	175 °C	347 °F	ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.22 %	0.22 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.38e+10 ohm-cm	6.38e+10 ohm-cm	ASTM D247
Dielectric Constant	4.8	4.8	ASTM D150
Dielectric Strength	9.80 kV/mm	249 kV/in	Short Time; ASTM D149
Dissipation Factor	0.059	0.059	ASTM D150
Arc Resistance	26 sec	26 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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