

## Plenco 7321 Phenolic, Granular, Transfer Molded

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

**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-Granular-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7321-Phenolic-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.470 g/cc	0.0170 lb/in <sup>3</sup>	ASTM D1895
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.37 %	0.37 %	ASTM D570
Linear Mold Shrinkage	0.0091 cm/cm	0.0091 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	76	76	ASTM D785
Tensile Strength, Ultimate	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	0.71 %	0.71 %	ASTM D638
Tensile Modulus	6.90 GPa	1000 ksi	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
Flexural Modulus	6.70 GPa	972 ksi	ASTM D790
Compressive Strength	179 MPa	26000 psi	ASTM D695
Izod Impact, Notched	0.284 J/cm	0.532 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.291 J/cm <sup>2</sup>	1.38 ft-lb/in <sup>2</sup>	ASTM D256
Impact	310	310	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	187 °C	369 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ASTM D648
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 1.50 mm Metric	@Thickness 0.0591 in English	Comments
Shrinkage	0.29 %	0.29 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.70e+11 ohm-cm	1.70e+11 ohm-cm	ASTM D247
Dielectric Constant	5.3	5.3	ASTM D150
Dielectric Strength	8.30 kV/mm	211 kV/in	Short Time; ASTM D149
Dissipation Factor	0.074	0.074	ASTM D150
Arc Resistance	133 sec	133 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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