

## Plenco 7321 Phenolic, Nodular, Compression 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-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7321-Phenolic-Nodular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in <sup>3</sup>	ASTM D1895
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.63 %	0.63 %	ASTM D570
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	63	63	ASTM D785
Tensile Strength, Ultimate	38.0 MPa	5510 psi	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	7.30 GPa	1060 ksi	ASTM D790
Compressive Strength	140 MPa	20300 psi	ASTM D695
Charpy Impact, Notched	0.400 J/cm <sup>2</sup>	1.90 ft-lb/in <sup>2</sup>	ASTM D256
Impact	410	410	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	67.0 μm/m-°C	37.2 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	170 °C	338 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	168 °C	334 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

<b>Oxygen Index</b> Thermal Properties	<b>24.2 %</b> Metric	<b>24.2 %</b> English	<b>ASTM D2863</b> Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
Volume Resistivity	2.00e+11 ohm-cm	2.00e+11 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	13.9 kV/mm	353 kV/in	Short Time; ASTM D149
Dissipation Factor	0.043	0.043	ASTM D150
Arc Resistance	113 sec	113 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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