

## Plenco 7552 Phenolic, Nodular, Injection Molded

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

### Material Notes:

PLENCO 07552 is a glass fiber reinforced novolac phenolic molding compound, exhibiting superior dimensional stability, good impact strength, and good electrical properties. Type ASTM 5948 MFH. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7552-Phenolic-Nodular-Injection-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7552-Phenolic-Nodular-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in <sup>3</sup>	ASTM D1895
Density	1.72 g/cc	0.0621 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.121 %	0.121 %	ASTM D570
Linear Mold Shrinkage	0.0049 cm/cm	0.0049 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	81	81	ASTM D785
Tensile Strength, Ultimate	43.0 MPa	6240 psi	ASTM D638
Elongation at Break	0.51 %	0.51 %	ASTM D638
Tensile Modulus	11.7 GPa	1700 ksi	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	10.3 GPa	1490 ksi	ASTM D790
Compressive Strength	156 MPa	22600 psi	ASTM D695
Poissons Ratio	0.31	0.31	ASTM D638
Shear Modulus	4.47 GPa	648 ksi	Calculated
Izod Impact, Notched	0.340 J/cm	0.637 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.310 J/cm <sup>2</sup>	1.48 ft-lb/in <sup>2</sup>	ASTM D256
Impact	188	188	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	19.4 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.580 W/m-K @Temperature 100 °C	4.03 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	189 °C	372 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	261 °C	502 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	46 %	46 %	ASTM D2863
Shrinkage	0.103 %	0.103 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.60e+12 ohm-cm	2.60e+12 ohm-cm	ASTM D247
Dielectric Constant	4.9	4.9	ASTM D150
Dielectric Strength	13.6 kV/mm	345 kV/in	Short Time; ASTM D149
Dissipation Factor	0.039	0.039	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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