

Plenco 7552 Phenolic, Nodular, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.710 g/cc	0.0257 lb/in ³	ASTM D1895
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	0.090 %	0.090 %	ASTM D570
Linear Mold Shrinkage	0.00143 cm/cm	0.00143 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	78	78	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.60 %	0.60 %	ASTM D638
Tensile Modulus	13.1 GPa	1900 ksi	ASTM D638
Flexural Strength	102 MPa	14800 psi	ASTM D790
Flexural Modulus	12.8 GPa	1860 ksi	ASTM D790
Compressive Strength	168 MPa	24400 psi	ASTM D695
Izod Impact, Notched	0.570 J/cm	1.07 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.620 J/cm ²	2.95 ft-lb/in ²	ASTM D256
Impact	227	227	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 μm/m-°C	23.3 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Maximum Service Temperature, Air	225 °C	437 °F	Heat Resistance; ASTM D570D

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	280 °C Metric	536 °F English	ASTM D249 Comments
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	46 %	46 %	ASTM D2863
Shrinkage	0.070 %	0.070 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+12 ohm-cm	1.30e+12 ohm-cm	ASTM D247
Dielectric Constant	5.0	5.0	ASTM D150
Dielectric Strength	14.3 kV/mm	363 kV/in	Short Time; ASTM D149
Dissipation Factor	0.033	0.033	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China