

Plenco 7202 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 07202 is an organic fiber reinforced phenolic molding compound, formulated to offer improved mechanical strength properties with an industrial finish. UL recognized under component file E40654. 07202 is available in black and brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7202-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.480 g/cc	0.0173 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.59 %	0.59 %	ASTM D570
Linear Mold Shrinkage	0.0098 cm/cm	0.0098 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	81	81	ASTM D785
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	0.71 %	0.71 %	ASTM D638
Tensile Modulus	7.60 GPa	1100 ksi	ASTM D638
Flexural Strength	67.0 MPa	9720 psi	ASTM D790
Flexural Modulus	6.10 GPa	885 ksi	ASTM D790
Compressive Strength	182 MPa	26400 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	2.84 GPa	412 ksi	Calculated
Izod Impact, Notched	0.247 J/cm	0.463 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.222 J/cm ²	1.06 ft-lb/in ²	ASTM D256
Impact	191	191	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	52.0 µm/m-°C	28.9 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	180 °C	356 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	147 °C	297 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	
Oxygen Index	25.6 %	25.6 %	ASTM D2863
Shrinkage	0.48 %	0.48 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+11 ohm-cm	1.50e+11 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	7.20 kV/mm	183 kV/in	Short Time; ASTM D149
Dissipation Factor	0.064	0.064	ASTM D150
Arc Resistance	110 sec	110 sec	ASTM D495
Comparative Tracking Index	150 V	150 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