

Plenco 7200 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 07200 is an organic fiber reinforced phenolic molding compound, offering improved mechanical strength, good powder properties and excellent cosmetic properties. UL recognized under component file E40654. 07200 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7200-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.550 g/cc	0.0199 lb/in ³	ASTM D1895
Density	1.37 g/cc	0.0495 lb/in ³	ASTM D792
Water Absorption	0.43 %	0.43 %	ASTM D570
Linear Mold Shrinkage	0.0106 cm/cm	0.0106 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	79	79	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.67 %	0.67 %	ASTM D638
Tensile Modulus	7.80 GPa	1130 ksi	ASTM D638
Flexural Strength	69.0 MPa	10000 psi	ASTM D790
Flexural Modulus	6.20 GPa	899 ksi	ASTM D790
Compressive Strength	188 MPa	27300 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.87 GPa	416 ksi	Calculated
Izod Impact, Notched	0.208 J/cm	0.390 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.194 J/cm ²	0.923 ft-lb/in ²	ASTM D256
Impact	148	148	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 µm/m-°C	29.4 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties Thermal Conductivity	Metric 0.255 W/m-K	English 2.12 BTU-in/hr-ft ² -°F	Comments ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	187 °C	369 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	148 °C	298 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 6.00 mm	@Thickness 0.236 in	
Oxygen Index	27.2 %	27.2 %	ASTM D2863
Shrinkage	0.47 %	0.47 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+11 ohm-cm	1.40e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	7.10 kV/mm	180 kV/in	Short Time; ASTM D149
Dissipation Factor	0.067	0.067	ASTM D150
Arc Resistance	119 sec	119 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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