

Plenco 7579 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 07579 is a fast curing, woodflour filled, novolac phenolic molding compound, formulated for industrial applications that do not require a smooth finish. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-7579-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.590 g/cc	0.0213 lb/in ³	ASTM D1895
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.37 %	0.37 %	ASTM D570
Linear Mold Shrinkage	0.0098 cm/cm	0.0098 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.66 %	0.66 %	ASTM D638
Tensile Modulus	8.30 GPa	1200 ksi	ASTM D638
Flexural Strength	68.0 MPa	9860 psi	ASTM D790
Flexural Modulus	6.80 GPa	986 ksi	ASTM D790
Compressive Strength	191 MPa	27700 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.07 GPa	445 ksi	Calculated
Izod Impact, Notched	0.203 J/cm	0.380 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.185 J/cm ²	0.880 ft-lb/in ²	ASTM D256
Impact	140	140	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	25.6 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	

Thermal Properties Thermal Conductivity	Metric 0.255 W/m-K	English 2.51 BTU-in/hr-ft ² -°F	Comments ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	191 °C	376 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	306 °F	ASTM D648
Flammability, UL94	V-1	V-1	
	@Thickness 5.10 mm	@Thickness 0.201 in	
Oxygen Index	26.5 %	26.5 %	ASTM D2863
Shrinkage	0.46 %	0.46 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.20e+11 ohm-cm	3.20e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	8.80 kV/mm	224 kV/in	Short Time; ASTM D149
Dissipation Factor	0.063	0.063	ASTM D150
Arc Resistance	125 sec	125 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