

## Plenco 7579 Phenolic, Granular, Compression 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-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7579-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ASTM D1895
Density	1.40 g/cc	0.0506 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.64 %	0.64 %	ASTM D570
Linear Mold Shrinkage	0.0042 cm/cm	0.0042 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ASTM D638
Elongation at Break	0.55 %	0.55 %	ASTM D638
Tensile Modulus	9.20 GPa	1330 ksi	ASTM D638
Flexural Strength	76.0 MPa	11000 psi	ASTM D790
Flexural Modulus	8.40 GPa	1220 ksi	ASTM D790
Compressive Strength	193 MPa	28000 psi	ASTM D695
Izod Impact, Notched	0.241 J/cm	0.451 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.249 J/cm <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	ASTM D256
Impact	175	175	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	75.0 $\mu\text{m}/\text{m}\cdot\text{C}$	41.7 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 $^{\circ}\text{C}$	@Temperature 104 - 266 $^{\circ}\text{F}$	
Maximum Service Temperature, Air	187 $^{\circ}\text{C}$	369 $^{\circ}\text{F}$	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	179 $^{\circ}\text{C}$	354 $^{\circ}\text{F}$	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 5.10 mm	@Thickness 0.201 in	
Oxygen Index	25 %	25 %	ASTM D2863
Shrinkage	0.27 %	0.27 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM D247
Dielectric Constant	5.1	5.1	ASTM D150
Dielectric Strength	12.0 kV/mm	305 kV/in	Short Time; ASTM D149
Dissipation Factor	0.046	0.046	ASTM D150
Arc Resistance	115 sec	115 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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