

## Plenco 7591 Phenolic, Pellet, Transfer Molded

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Flock Filled

### Material Notes:

PLENCO 07591 is a mineral and flock cotton filled novolac phenolic molding compound. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7591-Phenolic-Pellet-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7591-Phenolic-Pellet-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in <sup>3</sup>	ASTM D1895
Density	1.46 g/cc	0.0527 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.18 %	0.18 %	ASTM D570
Linear Mold Shrinkage	0.0057 cm/cm	0.0057 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	77	77	ASTM D785
Tensile Strength, Ultimate	37.0 MPa	5370 psi	ASTM D638
Elongation at Break	0.53 %	0.53 %	ASTM D638
Tensile Modulus	8.40 GPa	1220 ksi	ASTM D638
Flexural Strength	75.0 MPa	10900 psi	ASTM D790
Flexural Modulus	7.50 GPa	1090 ksi	ASTM D790
Compressive Strength	175 MPa	25400 psi	ASTM D695
Izod Impact, Notched	0.310 J/cm	0.581 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.310 J/cm <sup>2</sup>	1.48 ft-lb/in <sup>2</sup>	ASTM D256
Impact	150	150	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	190 °C	374 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 4.30 mm	V-0 @Thickness 0.169 in	

<small>Common Index</small> Thermal Properties	<small>33 %</small> Metric	<small>33 %</small> English	<small>ASTM D2863</small> Comments
Shrinkage	0.29 %	0.29 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.60e+10 ohm-cm	3.60e+10 ohm-cm	ASTM D247
Dielectric Constant	5.9	5.9	ASTM D150
Dielectric Strength	6.30 kV/mm	160 kV/in	Short Time; ASTM D149
Dissipation Factor	0.071	0.071	ASTM D150
Arc Resistance	179 sec	179 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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