

## Plenco 6582 Phenolic, Briquette, Transfer Molded

Category : Polymer , Thermoset , Phenolic , Phenolic/Rubber; Molded

### Material Notes:

PLENCO 06582 is a rubber modified phenolic molding compound, offering excellent heat resistant properties, along with improved mechanical strength at elevated temperatures. UL recognized under component file E40654. 06582 is available in black. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-6582-Phenolic-Briquette-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-6582-Phenolic-Briquette-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in <sup>3</sup>	ASTM D1895
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.155 %	0.155 %	ASTM D570
Linear Mold Shrinkage	0.0011 cm/cm	0.0011 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	44	44	ASTM D785
Tensile Strength, Ultimate	74.0 MPa	10700 psi	ASTM D638
Elongation at Break	0.73 %	0.73 %	ASTM D638
Tensile Modulus	9.20 GPa	1330 ksi	ASTM D638
Flexural Strength	115 MPa	16700 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Compressive Strength	157 MPa	22800 psi	ASTM D695
Izod Impact, Notched	0.470 J/cm	0.881 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.450 J/cm <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	ASTM D256
Impact	276	276	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	230 °C	446 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	241 °C	466 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 6.00 mm Metric	@Thickness 0.236 in English	Comments
Oxygen Index	37 %	37 %	ASTM D2863
Shrinkage	0.070 %	0.070 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.20e+11 ohm-cm	6.20e+11 ohm-cm	ASTM D247
Dielectric Constant	5.8	5.8	ASTM D150
Dielectric Strength	13.2 kV/mm	335 kV/in	Short Time; ASTM D149
Dissipation Factor	0.077	0.077	ASTM D150
Arc Resistance	120 sec	120 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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