

## Plenco 7556 Phenolic, Briquette, Transfer Molded

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

### Material Notes:

PLENCO 07556 is a glass fiber reinforced novolac phenolic molding compound, with good physical strengths and heat resistance along with excellent dimensional stability. UL recognized under component file E40654. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7556-Phenolic-Briquette-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7556-Phenolic-Briquette-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.830 g/cc	0.0300 lb/in <sup>3</sup>	ASTM D1895
Density	1.83 g/cc	0.0661 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.056 %	0.056 %	ASTM D570
Linear Mold Shrinkage	0.00094 cm/cm	0.00094 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	95	95	ASTM D785
Tensile Strength, Ultimate	76.0 MPa	11000 psi	ASTM D638
Elongation at Break	0.67 %	0.67 %	ASTM D638
Tensile Modulus	15.9 GPa	2310 ksi	ASTM D638
Flexural Strength	139 MPa	20200 psi	ASTM D790
Flexural Modulus	15.9 GPa	2310 ksi	ASTM D790
Compressive Strength	226 MPa	32800 psi	ASTM D695
Izod Impact, Notched	0.330 J/cm	0.618 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	203	203	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.540 W/m-K @Temperature 100 °C	3.75 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	217 °C	423 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	254 °C	489 °F	ASTM D648

Thermal Properties Flammability, UL94	V-1 Metric	V-1 English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	39 %	39 %	ASTM D2863
Shrinkage	0.049 %	0.049 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	5.10e+11 ohm-cm	5.10e+11 ohm-cm	ASTM D247
Dielectric Constant	6.7	6.7	ASTM D150
Dielectric Strength	8.10 kV/mm	206 kV/in	Short Time; ASTM D149
Dissipation Factor	0.042	0.042	ASTM D150
Arc Resistance	153 sec	153 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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