

## Plenco 7697 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Impact Grade, Filled

### Material Notes:

PLENCO 07697 is a black, two stage, improved impact phenolic molding compound. It has been specifically formulated for automotive pulleys. PLENCO 07697 is the same formulation as VALITE 697-A. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7697-Phenolic-Granular-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7697-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.520 g/cc	0.0188 lb/in <sup>3</sup>	ASTM D1895
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.31 %	0.31 %	ASTM D570
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	62.0 MPa	8990 psi	ASTM D638
Elongation at Break	0.72 %	0.72 %	ASTM D638
Tensile Modulus	10.1 GPa	1460 ksi	ASTM D638
Flexural Strength	94.0 MPa	13600 psi	ASTM D790
Flexural Modulus	9.20 GPa	1330 ksi	ASTM D790
Compressive Strength	223 MPa	32300 psi	ASTM D695
Izod Impact, Notched	0.253 J/cm	0.474 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.286 J/cm <sup>2</sup>	1.36 ft-lb/in <sup>2</sup>	ASTM D256
Impact	200	200	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	198 °C	388 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	204 °C	399 °F	ASTM D648
Oxygen Index	35 %	35 %	ASTM D2863
Shrinkage	0.18 %	0.18 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.90e+12 ohm-cm	2.90e+12 ohm-cm	ASTM D247
Dielectric Constant	4.7	4.7	ASTM D150
Dielectric Strength	14.5 kV/mm	368 kV/in	Short Time; ASTM D149
Dissipation Factor	0.040	0.040	ASTM D150
Arc Resistance	146 sec	146 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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