

## Plenco Valite 697-A Novolac Phenolic, Granular, Compression Molded (discontinued \*\*)

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

### Material Notes:

This Valite product has been replaced by Plenco 7697. Data provided by Plenco. VALITE 697-A is a black, two stage, improved impact phenolic molding compound. It has been specifically formulated for automotive pulleys. It is used in automotive and oil well applications and can be molded by compression, transfer, or injection processes. VALITE 697-A is the same formulation as PLENCO 07697. Plenco drop ball 113g test value is 55 cm. Plenco has discontinued their Valite product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-Valite-697-A-Novolac-Phenolic-Granular-Compression-Molded-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-Valite-697-A-Novolac-Phenolic-Granular-Compression-Molded-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.520 g/cc	0.0188 lb/in <sup>3</sup>	ASTM D1895
Water Absorption	0.30 %	0.30 %	ASTM D570
Linear Mold Shrinkage	0.0035 cm/cm	0.0035 in/in	Post shrinkage is 0.17% at 72hr 120°C.; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	90	90	ASTM D785
Tensile Strength, Ultimate	60.3 MPa	8750 psi	ASTM D638
Elongation at Break	0.70 %	0.70 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Yield Strength	92.2 MPa	13400 psi	ASTM D790
Flexural Modulus	9.10 GPa	1320 ksi	ASTM D790
Compressive Yield Strength	227.3 MPa	32970 psi	ASTM D695
Izod Impact, Notched	0.250 J/cm	0.468 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.280 J/cm <sup>2</sup>	1.33 ft-lb/in <sup>2</sup>	J/cm; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	199 °C	390 °F	Heat Resistance; ASTM D795
Deflection Temperature at 1.8 MPa (264 psi)	206 °C	403 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.09e+12 ohm-cm	4.09e+12 ohm-cm	ASTM D257
Dielectric Constant	4.5	4.5	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.0 kV/mm	381 kV/in	Short Term per ASTM D149.
Dissipation Factor	0.036	0.036	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	140 sec	140 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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