

Plenco Valite 759 Novolac Phenolic, Granular, Injection Molded (discontinued **)

Category : Polymer , Thermoset , Phenolic

Material Notes:

This Valite product has been replaced by Plenco 4759. Data provided by Plenco. VALITE 759 is a black, two stage, medium heat resistant phenolic molding compound. It has excellent molded finish and possesses good electrical properties. It is used in appliance and electrical applications and can be molded by compression, transfer, or injection processes. It is UL recognized under component file E59891. VALITE 759 is the same formulation as PLENCO 04759. Plenco drop ball 113g test value is 34 cm. Plenco has discontinued their Valite product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-Valite-759-Novolac-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ASTM D792
Apparent Bulk Density	0.700 g/cc	0.0253 lb/in ³	ASTM D1895
Water Absorption	0.32 %	0.32 %	ASTM D570
Linear Mold Shrinkage	0.0069 cm/cm	0.0069 in/in	Post shrinkage is 0.26% at 72hr 120°C.; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
Tensile Strength, Ultimate	59.6 MPa	8640 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
Tensile Modulus	10.0 GPa	1450 ksi	ASTM D638
Flexural Yield Strength	87.8 MPa	12700 psi	ASTM D790
Flexural Modulus	8.40 GPa	1220 ksi	ASTM D790
Compressive Yield Strength	193.3 MPa	28040 psi	ASTM D695
Charpy Impact, Notched	0.210 J/cm ²	0.999 ft-lb/in ²	J/cm; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	Heat Resistance; ASTM D795
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 3.05 mm	V-1 @Thickness 0.120 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.59e+11 ohm-cm	3.59e+11 ohm-cm	ASTM D257
Dielectric Constant	5.5 @Frequency 1e+6 Hz	5.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	10.3 kV/mm	262 kV/in	Short Term per ASTM D149.
Dissipation Factor	0.058 @Frequency 1e+6 Hz	0.058 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	140 sec	140 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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