

Plenco Valite 1246-18X Novolac Phenolic, Granular, Injection Molded (discontinued **)

Category : Polymer , Thermoset , Phenolic

Material Notes:

This Valite product has been replaced by Plenco 4246. Data provided by Plenco. VALITE 1246-18X is a black two-stage, medium heat resistant phenolic molding compound. It has excellent electrical, moldability and molded finish characteristics. It is used in appliance applications and can be molded by compression, transfer, or injection. Plenco drop ball 113g test value is 27 cm. Plenco has discontinued their Valite product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-Valite-1246-18X-Novolac-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Apparent Bulk Density	0.720 g/cc	0.0260 lb/in ³	ASTM D1895
Water Absorption	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage	0.0083 cm/cm	0.0083 in/in	Post shrinkage is 0.31% at 72hr 120°C.; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	58.4 MPa	8470 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Tensile Modulus	8.60 GPa	1250 ksi	ASTM D638
Flexural Yield Strength	88.3 MPa	12800 psi	ASTM D790
Flexural Modulus	8.10 GPa	1170 ksi	ASTM D790
Compressive Yield Strength	197.8 MPa	28690 psi	ASTM D695
Charpy Impact, Notched	0.170 J/cm ²	0.809 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)	170 °C	338 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 3.18 mm	V-1 @Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.34e+11 ohm-cm	1.34e+11 ohm-cm	ASTM D257
Dielectric Constant	5.4	5.4	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	10.1 kV/mm	257 kV/in	Short Term per ASTM D149.
Dissipation Factor	0.067	0.067	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

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