

Plenco Valite 4100 Novolac Phenolic, Granular, Injection Molded (discontinued **)

Category : Polymer , Thermoset , Phenolic

Material Notes:

This Valite product has been replaced by Plenco 4100. Data provided by Plenco. VALITE 4100 is a black two stage, medium heat resistant phenolic molding compound. It has excellent moldability characteristics and molded finish. It is used in appliance and oil field applications and can be molded by compression, transfer, or injection processes. It is UL recognized under component file E59891. VALITE 4100 is the same formulation as PLENCO 04100. Plenco drop ball 113g test value is 26 cm. Plenco has discontinued their Valite product line.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-Valite-4100-Novolac-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Apparent Bulk Density	0.740 g/cc	0.0267 lb/in ³	ASTM D1895
Water Absorption	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage	0.0081 cm/cm	0.0081 in/in	Post shrinkage is 0.27% at 72hr 120°C.; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	80	80	ASTM D785
Tensile Strength, Ultimate	56.8 MPa	8240 psi	ASTM D638
Elongation at Break	0.90 %	0.90 %	ASTM D638
Tensile Modulus	9.20 GPa	1330 ksi	ASTM D638
Flexural Yield Strength	88.1 MPa	12800 psi	ASTM D790
Flexural Modulus	8.20 GPa	1190 ksi	ASTM D790
Compressive Yield Strength	189.9 MPa	27540 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	199 °C	390 °F	Heat Resistance; ASTM D795
Deflection Temperature at 1.8 MPa (264 psi)	176 °C	349 °F	ASTM D648
	V-1	V-1	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.15e+11 ohm-cm	1.15e+11 ohm-cm	ASTM D257
Dielectric Constant	5.2	5.2	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	7.40 kV/mm	188 kV/in	Step-by-Step; ASTM D149
	10.5 kV/mm	267 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	150 sec	150 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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