

Plenco Valite 4100 Novolac Phenolic, Granular, Compression 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This Valite product has been replaced by Plenco 4100.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 28 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-Compression-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ASTM D792
Apparent Bulk Density	0.730 g/cc	0.0264 lb/in ³	ASTM D1895
Water Absorption	0.25 %	0.25 %	ASTM D570
Linear Mold Shrinkage	0.0037 cm/cm	0.0037 in/in	Post shrinkage is 0.12% at 72hr 120°C.; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	60.9 MPa	8830 psi	ASTM D638
Elongation at Break	0.70 %	0.70 %	ASTM D638
Tensile Modulus	10.6 GPa	1540 ksi	ASTM D638
Flexural Yield Strength	80.0 MPa	11600 psi	ASTM D790
Flexural Modulus	9.50 GPa	1380 ksi	ASTM D790
Compressive Yield Strength	207.9 MPa	30150 psi	ASTM D695
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	J/cm; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	204 °C	399 °F	Heat Resistance; ASTM D795
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ASTM D648
	V-1	V-1	

Thermal Properties	Metric	English	Comments
Flammability UL 94	@ Thickness 1.47 mm	@ Thickness 0.0579 in	
Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.40e+12 ohm-cm	3.40e+12 ohm-cm	ASTM D257
Dielectric Constant	4.8	4.8	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	15.1 kV/mm	384 kV/in	Short Term per ASTM D149.
Dissipation Factor	0.038	0.038	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	160 sec	160 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China