

## Plenco Valite 4224 Novolac Phenolic, Granular, Transfer Molded (discontinued \*\*)

Category : Polymer , Thermoset , Phenolic

### Material Notes:

This Valite product has been replaced by Plenco 4224. Data provided by Plenco.VALITE 4224 is a brown, two stage, general purpose phenolic molding compound. It has good electrical and moldability characteristics. It is used in electrical and automotive applications and can be molded by compression, transfer, or injection processes. Plenco drop ball 113g test value is 35 cm.Plenco has discontinued their Valite product line.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-Valite-4224-Novolac-Phenolic-Granular-Transfer-Molded-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-Valite-4224-Novolac-Phenolic-Granular-Transfer-Molded-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.600 g/cc	0.0217 lb/in <sup>3</sup>	ASTM D1895
Water Absorption	0.35 %	0.35 %	ASTM D570
Linear Mold Shrinkage	0.0066 cm/cm	0.0066 in/in	Post shrinkage is 0.25% at 72hr 120°C.; ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	91	91	ASTM D785
Tensile Strength, Ultimate	53.3 MPa	7730 psi	ASTM D638
Elongation at Break	0.70 %	0.70 %	ASTM D638
Tensile Modulus	8.60 GPa	1250 ksi	ASTM D638
Flexural Yield Strength	81.8 MPa	11900 psi	ASTM D790
Flexural Modulus	7.80 GPa	1130 ksi	ASTM D790
Compressive Yield Strength	217.9 MPa	31600 psi	ASTM D695
Izod Impact, Notched	0.200 J/cm	0.375 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	J/cm; ASTM D256

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	193 °C	379 °F	Heat Resistance; ASTM D795
Deflection Temperature at 1.8 MPa (264 psi)	183 °C	361 °F	ASTM D648
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Flammability UL 94	@ Thickness 6.10 mm	@ Thickness 0.240 in	
Electrical Properties	Metric	English	Comments
Electrical Resistivity	3.0725e+11 ohm-cm	3.0725e+11 ohm-cm	ASTM D257
Dielectric Constant	4.9	4.9	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	11.5 kV/mm	292 kV/in	Short Term per ASTM D149.
Dissipation Factor	0.049	0.049	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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