

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

Category : Polymer , Thermoset , Phenolic , Phenolic; Unreinforced; Molded

### Material Notes:

Two-stage Phenolic. PLENCO 04224 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. Information supplied by Plenco

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-4224-Phenolic-Granular-Transfer-Molded-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-4224-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>	Apparent density per ASTM D1895
Water Absorption	0.35 %	0.35 %	ASTM D570
Linear Mold Shrinkage	0.0062 cm/cm	0.0062 in/in	per ATM D955. Post shrinkage is 0.23% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	91	91	ASTM D785
Tensile Strength, Ultimate	54.3 MPa	7880 psi	ASTM D638
Elongation at Break	0.72 %	0.72 %	ASTM D638
Tensile Modulus	8.64 GPa	1250 ksi	ASTM D638
Flexural Yield Strength	84.1 MPa	12200 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Compressive Yield Strength	218.9 MPa	31750 psi	ASTM D695
Izod Impact, Notched	0.210 J/cm	0.393 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	ASTM D256
Impact	120	120	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	195 °C	383 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	185 °C	365 °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	3.42e+11 ohm-cm	3.42e+11 ohm-cm	ASTM D257
Dielectric Constant	5.0	5.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	12.2 kV/mm	310 kV/in	Short Time; ASTM D149
Dissipation Factor	0.051	0.051	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	120 sec	120 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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