

## Plenco 4246 Phenolic, Granular, Injection Molded (discontinued \*\*)

Category : Polymer , Thermoset , Phenolic , Phenolic, Novolac, Heat Resistant Grade, Filled

### Material Notes:

Two-stage Phenolic. PLENCO 04246 flow 18 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. Information supplied by Plenco

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-4246-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-4246-Phenolic-Granular-Injection-Molded-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.720 g/cc	0.0260 lb/in <sup>3</sup>	Apparent density per ASTM D1895
Water Absorption	0.26 %	0.26 %	ASTM D570
Linear Mold Shrinkage	0.0081 cm/cm	0.0081 in/in	per ATM D955. Post shrinkage is 0.31% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	79	79	ASTM D785
Tensile Strength, Ultimate	58.9 MPa	8540 psi	ASTM D638
Elongation at Break	0.83 %	0.83 %	ASTM D638
Tensile Modulus	8.80 GPa	1280 ksi	ASTM D638
Flexural Yield Strength	88.5 MPa	12800 psi	ASTM D790
Flexural Modulus	8.16 GPa	1180 ksi	ASTM D790
Compressive Yield Strength	199.1 MPa	28880 psi	ASTM D695
Charpy Impact, Notched	0.170 J/cm <sup>2</sup>	0.809 ft-lb/in <sup>2</sup>	ASTM D256
Impact	98	98	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	201 °C	394 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	169 °C	336 °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	1.35e+11 ohm-cm	1.35e+11 ohm-cm	ASTM D257
Dielectric Constant	5.3	5.3	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	10.0 kV/mm	254 kV/in	Short Time; ASTM D149
Dissipation Factor	0.068	0.068	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

## 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