

## Plenco 7466 Phenolic, Nodular, Injection Molded (discontinued \*\*)

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Novolac, Mineral/Flock Filled

### Material Notes:

Two-Stage Phenolic. PLENCO 07466 is a flock cotton and mineral filled phenolic molding compound offering excellent heat resistance and dimensional stability. UL recognized under component file E40654. 07466 is available in black. Information supplied by Plenco

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7466-Phenolic-Nodular-Injection-Molded-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_Plenco-7466-Phenolic-Nodular-Injection-Molded-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in <sup>3</sup>	ASTM D792
Apparent Bulk Density	0.670 g/cc	0.0242 lb/in <sup>3</sup>	Apparent density per ASTM D1895
Water Absorption	0.15 %	0.15 %	ASTM D570
Linear Mold Shrinkage	0.0058 cm/cm	0.0058 in/in	per ATM D955. Post shrinkage is 0.15% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	82	82	ASTM D785
Tensile Strength, Ultimate	51.8 MPa	7510 psi	ASTM D638
Elongation at Break	0.59 %	0.59 %	ASTM D638
Tensile Modulus	10.08 GPa	1462 ksi	ASTM D638
Flexural Yield Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	9.08 GPa	1320 ksi	ASTM D790
Compressive Yield Strength	191.6 MPa	27790 psi	ASTM D695
Poissons Ratio	0.33	0.33	In tension
Shear Modulus	3.80 GPa	551 ksi	Calculated
Charpy Impact, Notched	0.200 J/cm <sup>2</sup>	0.952 ft-lb/in <sup>2</sup>	ASTM D256
Impact	122	122	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 μm/m-°C	16.7 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	203 °C	397 °F	Heat resistance per ASTM D794

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	177 °C	351 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	4.01e+11 ohm-cm	4.01e+11 ohm-cm	ASTM D257
Dielectric Constant	5.0 @Frequency 1e+6 Hz	5.0 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	12.2 kV/mm	310 kV/in	Short Time; ASTM D149
Dissipation Factor	0.049 @Frequency 1e+6 Hz	0.049 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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