

## Plenco 3356 Phenolic, Granular, Compression Molded

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

### Material Notes:

PLENCO 03356 is a mineral filled phenolic molding compound offering excellent arc resistance, comparative tracking, and flame resistant properties. UL recognized under component file E40654. 03356 is available in black. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-3356-Phenolic-Granular-Compression-Molded.php](http://www.lookpolymers.com/polymer_Plenco-3356-Phenolic-Granular-Compression-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.680 g/cc	0.0246 lb/in <sup>3</sup>	ASTM D1895
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.217 %	0.217 %	ASTM D570
Linear Mold Shrinkage	0.00227 cm/cm	0.00227 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	79	79	ASTM D785
Tensile Strength, Ultimate	50.0 MPa	7250 psi	ASTM D638
Elongation at Break	0.45 %	0.45 %	ASTM D638
Tensile Modulus	11.1 GPa	1610 ksi	ASTM D638
Flexural Strength	72.0 MPa	10400 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Compressive Strength	164 MPa	23800 psi	ASTM D695
Izod Impact, Notched	0.184 J/cm	0.345 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.206 J/cm <sup>2</sup>	0.980 ft-lb/in <sup>2</sup>	ASTM D256
Impact	115	115	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.620 W/m-K @Temperature 100 °C	4.30 BTU-in/hr-ft <sup>2</sup> -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	211 °C	412 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	195 °C	383 °F	ASTM D648

Thermal Properties Flammability, UL94	V-0 Metric	V-0 English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.075 %	0.075 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	ASTM D247
Dielectric Constant	4.4	4.4	ASTM D150
Dielectric Strength	13.6 kV/mm	345 kV/in	Step by Step; ASTM D149
	16.3 kV/mm	414 kV/in	Short Time; ASTM D149
Dielectric Breakdown	18000 V	18000 V	1hr 82C; ASTM D149
Dissipation Factor	0.036	0.036	ASTM D150
Arc Resistance	184 sec	184 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