

Plenco 3356 Phenolic, Granular, Injection 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-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in ³	ASTM D1895
Density	1.55 g/cc	0.0560 lb/in ³	ASTM D792
Water Absorption	0.224 %	0.224 %	ASTM D570
Linear Mold Shrinkage	0.0082 cm/cm	0.0082 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	77	77	ASTM D785
Tensile Strength, Ultimate	51.0 MPa	7400 psi	ASTM D638
Elongation at Break	0.54 %	0.54 %	ASTM D638
Tensile Modulus	11.0 GPa	1600 ksi	ASTM D638
Flexural Strength	79.0 MPa	11500 psi	ASTM D790
Flexural Modulus	8.80 GPa	1280 ksi	ASTM D790
Compressive Strength	159 MPa	23100 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	4.07 GPa	590 ksi	Calculated
Izod Impact, Notched	0.168 J/cm	0.315 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.169 J/cm ²	0.804 ft-lb/in ²	ASTM D256
Impact	87	87	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	47.0 $\mu\text{m}/\text{m}\cdot\text{C}$ @Temperature 40.0 - 130 °C	26.1 $\mu\text{in}/\text{in}\cdot\text{F}$ @Temperature 104 - 266 °F	TMA; ASTM E831

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.548 W/m-K	2.25 BTU-in/hr-ft ² -F	ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	204 °C	399 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	165 °C	329 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	28.8 %	28.8 %	ASTM D2863
Shrinkage	0.246 %	0.246 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.10e+11 ohm-cm	9.10e+11 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	7.60 kV/mm	193 kV/in	Step by Step; ASTM D149
	11.0 kV/mm	279 kV/in	Short Time; ASTM D149
Dissipation Factor	0.066	0.066	ASTM D150
Arc Resistance	182 sec	182 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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