

Plenco 6554 Phenolic, Granular, Compression Molded (discontinued **)

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

Material Notes:

Two-Stage Phenolic. PLENCO 06554 is an organic reinforced phenolic molding compound modified with PTFE to offer improved coefficient of friction values. 06554 is available in black. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6554-Phenolic-Granular-Compression-Molded-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in ³	ASTM D792
Apparent Bulk Density	0.580 g/cc	0.0210 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.45 %	0.45 %	ASTM D570
Linear Mold Shrinkage	0.0044 cm/cm	0.0044 in/in	per ATM D955. Post shrinkage is 0.14% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	75	75	ASTM D785
Tensile Strength, Ultimate	55.7 MPa	8080 psi	ASTM D638
Elongation at Break	0.89 %	0.89 %	ASTM D638
Tensile Modulus	8.27 GPa	1200 ksi	ASTM D638
Flexural Yield Strength	83.2 MPa	12100 psi	ASTM D790
Flexural Modulus	7.72 GPa	1120 ksi	ASTM D790
Compressive Yield Strength	155.3 MPa	22520 psi	ASTM D695
Izod Impact, Notched	0.230 J/cm	0.431 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.220 J/cm ²	1.05 ft-lb/in ²	ASTM D256
Impact	150	150	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 μm/m-°C	55.0 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.370 W/m-K	2.57 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties <small>Temperature, Air</small>	Metric	English	Comments <small>Reference per ASTM D794</small>
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	2.128e+12 ohm-cm	2.128e+12 ohm-cm	ASTM D257
Dielectric Constant	4.5 @Frequency 1e+6 Hz	4.5 @Frequency 1e+6 Hz	ASTM D150
Dielectric Strength	16.2 kV/mm	411 kV/in	Short Time; ASTM D149
Dissipation Factor	0.040 @Frequency 1e+6 Hz	0.040 @Frequency 1e+6 Hz	ASTM D150
Arc Resistance	60 sec	60 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