

Plenco 6553 Phenolic, Granular, Compression Molded

Category : Polymer , Thermoset , Phenolic , Phenolic; Unreinforced; Molded

Material Notes:

Two-Stage Phenolic. PLENCO 06553 is a phenolic molding compound, formulated specifically for automotive brake pistons. 06553 exhibits excellent dimensional stability, and resistance to brake fluids, and provides for grinding to close tolerances. Information supplied by Plenco

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6553-Phenolic-Granular-Compression-Molded.php

Physical Properties	Metric	English	Comments
Density	2.13 g/cc	0.0770 lb/in ³	ASTM D792
Apparent Bulk Density	1.01 g/cc	0.0365 lb/in ³	Apparent density per ASTM D1895
Water Absorption	0.030 %	0.030 %	ASTM D570
Linear Mold Shrinkage	0.00040 cm/cm	0.00040 in/in	per ATM D955. Post shrinkage is 0.04% at 72hr 120°C per ASTM D1299.

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	88	88	ASTM D785
Tensile Strength, Ultimate	53.5 MPa	7760 psi	ASTM D638
Tensile Modulus	4.10 GPa	595 ksi	ASTM D638
Flexural Yield Strength	89.9 MPa	13000 psi	ASTM D790
Flexural Modulus	19.03 GPa	2760 ksi	ASTM D790
Compressive Yield Strength	183.3 MPa	26590 psi	ASTM D695
Izod Impact, Notched	0.220 J/cm	0.412 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.270 J/cm ²	1.28 ft-lb/in ²	ASTM D256
Impact	44	44	J/m Plenco drop ball test

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.940 W/m-K @Temperature 100 °C	6.52 BTU-in/hr-ft ² -°F @Temperature 212 °F	
Maximum Service Temperature, Air	219 °C	426 °F	Heat resistance per ASTM D794
Deflection Temperature at 1.8 MPa (264 psi)	226 °C	439 °F	ASTM D648

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.47 mm	@Thickness 0.0579 in	
Oxygen Index	46 %	46 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Electrical Resistivity	6.89e+12 ohm-cm	6.89e+12 ohm-cm	ASTM D257
Dielectric Constant	5.4	5.4	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	11.2 kV/mm	284 kV/in	Short Time; ASTM D149
Dissipation Factor	0.019	0.019	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Arc Resistance	190 sec	190 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

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