

Plenco 6582 Phenolic, Briquette, Injection Molded

Category : Polymer , Thermoset , Phenolic , Phenolic/Rubber; Molded

Material Notes:

PLENCO 06582 is a rubber modified phenolic molding compound, offering excellent heat resistant properties, along with improved mechanical strength at elevated temperatures. UL recognized under component file E40654. 06582 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6582-Phenolic-Briquette-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in ³	ASTM D1895
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.165 %	0.165 %	ASTM D570
Linear Mold Shrinkage	0.00233 cm/cm	0.00233 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	43	43	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.75 %	0.75 %	ASTM D638
Tensile Modulus	9.60 GPa	1390 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	8.40 GPa	1220 ksi	ASTM D790
Compressive Strength	116 MPa	16800 psi	ASTM D695
Izod Impact, Notched	0.390 J/cm	0.731 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.340 J/cm ²	1.62 ft-lb/in ²	ASTM D256
Impact	292	292	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 $\mu\text{m}/\text{m}\cdot\text{C}$	29.4 $\mu\text{in}/\text{in}\cdot\text{F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	
Thermal Conductivity	0.440 W/m-K	3.05 BTU-in/hr-ft ² -°F	ASTM E1461

Thermal Properties	@Temperature 100 °C Metric	@Temperature 212 °F English	Comments
Maximum Service Temperature, Air	244 °C	471 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	232 °C	450 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	
Oxygen Index	36 %	36 %	ASTM D2863
Shrinkage	0.128 %	0.128 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	6.40e+11 ohm-cm	6.40e+11 ohm-cm	ASTM D247
Dielectric Constant	5.5	5.5	ASTM D150
Dielectric Strength	10.5 kV/mm	267 kV/in	Step by Step; ASTM D149
	12.9 kV/mm	328 kV/in	Short Time; ASTM D149
Dissipation Factor	0.083	0.083	ASTM D150
Arc Resistance	135 sec	135 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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