

Plenco 4466 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 04466 is a heat resistant, mineral and flock filled phenolic molding compound, offering excellent mechanical strength and cosmetic properties. UL recognized under component file E40654. 04466 is available in black or brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4466-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.630 g/cc	0.0228 lb/in ³	ASTM D1895
Density	1.58 g/cc	0.0571 lb/in ³	ASTM D792
Water Absorption	0.179 %	0.179 %	ASTM D570
Linear Mold Shrinkage	0.0076 cm/cm	0.0076 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	73	73	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ASTM D638
Elongation at Break	0.58 %	0.58 %	ASTM D638
Tensile Modulus	10.3 GPa	1490 ksi	ASTM D638
Flexural Strength	83.0 MPa	12000 psi	ASTM D790
Flexural Modulus	8.80 GPa	1280 ksi	ASTM D790
Compressive Strength	156 MPa	22600 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	3.84 GPa	557 ksi	Calculated
Izod Impact, Notched	0.166 J/cm	0.311 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.182 J/cm ²	0.866 ft-lb/in ²	ASTM D256
Impact	98	98	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 $\mu\text{m}/\text{m}\cdot\text{°C}$ @Temperature 40.0 - 130 °C	25.6 $\mu\text{in}/\text{in}\cdot\text{°F}$ @Temperature 104 - 266 °F	TMA; ASTM E831

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.548 W/m-K	2.75 BTU-in/hr-ft ² -F	ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	202 °C	396 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	27.4 %	27.4 %	ASTM D2863
Shrinkage	0.271 %	0.271 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+11 ohm-cm	2.00e+11 ohm-cm	ASTM D247
Dielectric Constant	5.7	5.7	ASTM D150
Dielectric Strength	10.6 kV/mm	269 kV/in	Short Time; ASTM D149
Dissipation Factor	0.067	0.067	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