

Plenco 4466 Phenolic, Granular, Transfer 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-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.59 g/cc	0.0574 lb/in ³	ASTM D792
Water Absorption	0.132 %	0.132 %	ASTM D570
Linear Mold Shrinkage	0.0043 cm/cm	0.0043 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.63 %	0.63 %	ASTM D638
Tensile Modulus	10.1 GPa	1460 ksi	ASTM D638
Flexural Strength	94.0 MPa	13600 psi	ASTM D790
Flexural Modulus	9.60 GPa	1390 ksi	ASTM D790
Compressive Strength	183 MPa	26500 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.80 GPa	551 ksi	Calculated
Izod Impact, Notched	0.196 J/cm	0.367 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.220 J/cm ²	1.05 ft-lb/in ²	ASTM D256
Impact	115	115	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	23.3 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	213 °C	415 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	27 %	27 %	ASTM D2863
Shrinkage	0.206 %	0.206 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.10e+11 ohm-cm	2.10e+11 ohm-cm	ASTM D247
Dielectric Constant	6.2	6.2	ASTM D150
Dielectric Strength	9.70 kV/mm	246 kV/in	Short Time; ASTM D149
Dissipation Factor	0.086	0.086	ASTM D150
Arc Resistance	184 sec	184 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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