

Plenco 4548 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 04548 is a heat resistant mineral filled phenolic molding compound, offering fast cure rates and hot rigidity. Type ASTM 5948 CFG, and UL recognized under component file E40654. 04548 is available in black and brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4548-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.690 g/cc	0.0249 lb/in ³	ASTM D1895
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.215 %	0.215 %	ASTM D570
Linear Mold Shrinkage	0.0052 cm/cm	0.0052 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	87	87	ASTM D785
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ASTM D638
Tensile Modulus	9.00 GPa	1310 ksi	ASTM D638
Flexural Strength	98.0 MPa	14200 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Compressive Strength	208 MPa	30200 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	3.36 GPa	487 ksi	Calculated
Izod Impact, Notched	0.171 J/cm	0.320 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ASTM D256
Impact	104	104	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	65.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	36.1 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.145 W/m-K	2.25 BTU-in/hr-ft ² -F	ASTM E1461
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	204 °C	399 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	189 °C	372 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	27.3 %	27.3 %	ASTM D2863
Shrinkage	0.199 %	0.199 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.10e+11 ohm-cm	7.10e+11 ohm-cm	ASTM D247
Dielectric Constant	5.3	5.3	ASTM D150
Dielectric Strength	12.3 kV/mm	312 kV/in	Short Time; ASTM D149
Dissipation Factor	0.056	0.056	ASTM D150
Arc Resistance	144 sec	144 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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