

Plenco 4300 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 04300 is a heat resistant, mineral filled phenolic molding compound offering optimum cure characteristics and excellent dimensional stability. It is formulated for wiring devices and electrical control applications. Type ASTM 5948 CFG, and UL recognized under component file E40654. 04300 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4300-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.660 g/cc	0.0238 lb/in ³	ASTM D1895
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Water Absorption	0.217 %	0.217 %	ASTM D570
Linear Mold Shrinkage	0.0076 cm/cm	0.0076 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	77	77	ASTM D785
Tensile Strength, Ultimate	53.0 MPa	7690 psi	ASTM D638
Elongation at Break	0.67 %	0.67 %	ASTM D638
Tensile Modulus	9.90 GPa	1440 ksi	ASTM D638
Flexural Strength	85.0 MPa	12300 psi	ASTM D790
Flexural Modulus	8.60 GPa	1250 ksi	ASTM D790
Compressive Strength	162 MPa	23500 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.72 GPa	540 ksi	Calculated
Izod Impact, Notched	0.166 J/cm	0.311 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.178 J/cm ²	0.847 ft-lb/in ²	ASTM D256
Impact	98	98	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	46.0 µm/m-°C	25.6 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.540 W/m-K @Temperature 100 °C	3.75 BTU-in/hr-ft²-°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	201 °C	394 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	173 °C	343 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
Oxygen Index	31 %	31 %	ASTM D2863
Shrinkage	0.243 %	0.243 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.50e+11 ohm-cm	7.50e+11 ohm-cm	ASTM D247
Dielectric Constant	5.5	5.5	ASTM D150
Dielectric Strength	6.60 kV/mm	168 kV/in	Step by Step; ASTM D149
	10.9 kV/mm	277 kV/in	Short Time; ASTM D149
Dissipation Factor	0.057	0.057	ASTM D150
Arc Resistance	180 sec	180 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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