

Plenco 2571 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 02571 is a general purpose, organic filled phenolic molding compound offering optimum cure characteristics while maintaining excellent mechanical and electrical properties. UL recognized under component file E40654. 02571 is available in black or brown color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2571-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in ³	ASTM D1895
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Water Absorption	0.273 %	0.273 %	ASTM D570
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	61.0 MPa	8850 psi	ASTM D638
Elongation at Break	0.83 %	0.83 %	ASTM D638
Tensile Modulus	8.70 GPa	1260 ksi	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	7.60 GPa	1100 ksi	ASTM D790
Compressive Strength	190 MPa	27600 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.22 GPa	467 ksi	Calculated
Izod Impact, Notched	0.189 J/cm	0.354 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.190 J/cm ²	0.904 ft-lb/in ²	ASTM D256
Impact	104	104	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	48.0 μm/m-°C	26.7 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.400 W/m-K @Temperature 100 °C	2.78 BTU-in/hr-ft ² -°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	200 °C	392 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	24.5 %	24.5 %	ASTM D2863
Shrinkage	0.274 %	0.274 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.20e+12 ohm-cm	1.20e+12 ohm-cm	ASTM D247
Dielectric Constant	4.6	4.6	ASTM D150
Dielectric Strength	13.0 kV/mm	330 kV/in	Short Time; ASTM D149
Dissipation Factor	0.045	0.045	ASTM D150
Arc Resistance	138 sec	138 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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