

Plenco 2535 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 02535 is a general purpose, organic filled phenolic molding compound offering optimized cure characteristics and excellent electrical properties. Type ASTM 5948 CFG, and UL recognized under component file E40654. 02535 is available in black or brown color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2535-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.610 g/cc	0.0220 lb/in ³	ASTM D1895
Density	1.38 g/cc	0.0499 lb/in ³	ASTM D792
Water Absorption	0.41 %	0.41 %	ASTM D570
Linear Mold Shrinkage	0.0107 cm/cm	0.0107 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	85	85	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.83 %	0.83 %	ASTM D638
Tensile Modulus	7.80 GPa	1130 ksi	ASTM D638
Flexural Strength	81.0 MPa	11700 psi	ASTM D790
Flexural Modulus	6.90 GPa	1000 ksi	ASTM D790
Compressive Strength	202 MPa	29300 psi	ASTM D695
Poissons Ratio	0.36	0.36	ASTM D638
Shear Modulus	2.87 GPa	416 ksi	Calculated
Izod Impact, Notched	0.186 J/cm	0.348 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.186 J/cm ²	0.885 ft-lb/in ²	ASTM D256
Impact	103	103	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	43.0 µm/m-°C	23.9 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	196 °C	385 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	26.1 %	26.1 %	ASTM D2863
Shrinkage	0.44 %	0.44 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.30e+11 ohm-cm	2.30e+11 ohm-cm	ASTM D247
Dielectric Constant	4.8	4.8	ASTM D150
Dielectric Strength	10.2 kV/mm	259 kV/in	Short Time; ASTM D149
Dissipation Factor	0.057	0.057	ASTM D150
Arc Resistance	126 sec	126 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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