

Plenco 2311 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 02311 is a versatile general purpose organic filled phenolic molding compound offering excellent mold processability and optimized cure cycles. PLENCO 02311 is also granulated to provide improved pourability characteristics for cold powder compression molding. UL recognized under component file E40654. 02311 is available in black or brown color. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-2311-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	0.43 %	0.43 %	ASTM D570
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	83	83	ASTM D785
Tensile Strength, Ultimate	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	0.86 %	0.86 %	ASTM D638
Tensile Modulus	8.20 GPa	1190 ksi	ASTM D638
Flexural Strength	86.0 MPa	12500 psi	ASTM D790
Flexural Modulus	7.30 GPa	1060 ksi	ASTM D790
Compressive Strength	198 MPa	28700 psi	ASTM D695
Poissons Ratio	0.33	0.33	ASTM D638
Shear Modulus	3.08 GPa	447 ksi	Calculated
Izod Impact, Notched	0.163 J/cm	0.305 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	57.0 μm/m-°C	31.7 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	201 °C	394 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	157 °C	315 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	27 %	27 %	ASTM D2863
Shrinkage	0.42 %	0.42 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.20e+11 ohm-cm	2.20e+11 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	9.30 kV/mm	236 kV/in	Short Time; ASTM D149
Dissipation Factor	0.083	0.083	ASTM D150
Arc Resistance	144 sec	144 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

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