

Plenco 4311 Phenolic, Granular, Transfer Molded

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

Material Notes:

PLENCO 04311 is a heat resistant, mineral filled phenolic molding compound offering excellent processability, mechanical strength, and improved cold powder pourability characteristics. UL recognized under component file E40654. 04311 is available in black or brown. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4311-Phenolic-Granular-Transfer-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.700 g/cc	0.0253 lb/in ³	ASTM D1895
Density	1.47 g/cc	0.0531 lb/in ³	ASTM D792
Water Absorption	0.211 %	0.211 %	ASTM D570
Linear Mold Shrinkage	0.0049 cm/cm	0.0049 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	86	86	ASTM D785
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Elongation at Break	0.73 %	0.73 %	ASTM D638
Tensile Modulus	9.10 GPa	1320 ksi	ASTM D638
Flexural Strength	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	8.90 GPa	1290 ksi	ASTM D790
Compressive Strength	197 MPa	28600 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	3.40 GPa	493 ksi	Calculated
Izod Impact, Notched	0.172 J/cm	0.322 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ASTM D256
Impact	90	90	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 μm/m-°C	35.0 μin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Maximum Service Temperature, Air	206 °C	403 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	26.4 %	26.4 %	ASTM D2863
Shrinkage	0.203 %	0.203 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.90e+11 ohm-cm	3.90e+11 ohm-cm	ASTM D247
Dielectric Constant	5.5	5.5	ASTM D150
Dielectric Strength	11.3 kV/mm	287 kV/in	Short Time; ASTM D149
Dissipation Factor	0.057	0.057	ASTM D150
Arc Resistance	150 sec	150 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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