

Plenco 4311 Phenolic, Granular, Injection 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-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.710 g/cc	0.0257 lb/in ³	ASTM D1895
Density	1.48 g/cc	0.0535 lb/in ³	ASTM D792
Water Absorption	0.267 %	0.267 %	ASTM D570
Linear Mold Shrinkage	0.0083 cm/cm	0.0083 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	79	79	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.78 %	0.78 %	ASTM D638
Tensile Modulus	9.10 GPa	1320 ksi	ASTM D638
Flexural Strength	89.0 MPa	12900 psi	ASTM D790
Flexural Modulus	8.00 GPa	1160 ksi	ASTM D790
Compressive Strength	177 MPa	25700 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	3.40 GPa	493 ksi	Calculated
Izod Impact, Notched	0.155 J/cm	0.290 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.165 J/cm ²	0.785 ft-lb/in ²	ASTM D256
Impact	87	87	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C	27.8 µin/in-°F	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.490 W/m-K @Temperature 100 °C	3.40 BTU-in/hr-ft²-°F @Temperature 212 °F	ASTM E1461
Maximum Service Temperature, Air	206 °C	403 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	167 °C	333 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	29.4 %	29.4 %	ASTM D2863
Shrinkage	0.288 %	0.288 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.10e+11 ohm-cm	4.10e+11 ohm-cm	ASTM D247
Dielectric Constant	5.2	5.2	ASTM D150
Dielectric Strength	7.70 kV/mm	196 kV/in	Step by Step; ASTM D149
	11.0 kV/mm	279 kV/in	Short Time; ASTM D149
Dissipation Factor	0.059	0.059	ASTM D150
Arc Resistance	159 sec	159 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China