

Plenco 6301 Phenolic, Granular, Injection Molded

Category : Polymer , Thermoset , Phenolic

Material Notes:

PLENCO 06301 is an inorganic reinforced phenolic molding compound, offering excellent heat resistance, dimensional stability, and processability as required for typical automotive applications. It is not intended for electrical insulating applications. 06301 is available in black. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-6301-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.650 g/cc	0.0235 lb/in ³	ASTM D1895
Density	1.50 g/cc	0.0542 lb/in ³	ASTM D792
Water Absorption	0.231 %	0.231 %	ASTM D570
Linear Mold Shrinkage	0.0078 cm/cm	0.0078 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	99	99	ASTM D785
Tensile Strength, Ultimate	57.0 MPa	8270 psi	ASTM D638
Elongation at Break	0.77 %	0.77 %	ASTM D638
Tensile Modulus	9.50 GPa	1380 ksi	ASTM D638
Flexural Strength	88.0 MPa	12800 psi	ASTM D790
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
Compressive Strength	180 MPa	26100 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.52 GPa	511 ksi	Calculated
Izod Impact, Notched	0.165 J/cm	0.309 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.186 J/cm ²	0.885 ft-lb/in ²	ASTM D256
Impact	100	100	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	TMA; ASTM E831
	@Temperature 40.0 -	@Temperature 104 -	

Thermal Properties	130 °C Metric	266 °F English	Comments
Thermal Conductivity	0.540 W/m-K @Temperature 100 °C	3.75 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)	168 °C	334 °F	ASTM D648
Oxygen Index	32 %	32 %	ASTM D2863
Shrinkage	0.28 %	0.28 %	72 hr, 120°C; ASTM D1299

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