

Plenco 4485 Phenolic, Granular, Injection Molded

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

Material Notes:

PLENCO 04485 is a mineral filled phenolic molding compound offering excellent heat resistance, electrical resistance, and dimensional stability. UL recognized under component file E40654. 04485 is available in black, brown, and red. Information supplied by Plenco.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plenco-4485-Phenolic-Granular-Injection-Molded.php

Physical Properties	Metric	English	Comments
Bulk Density	0.640 g/cc	0.0231 lb/in ³	ASTM D1895
Density	1.46 g/cc	0.0527 lb/in ³	ASTM D792
Water Absorption	0.212 %	0.212 %	ASTM D570
Linear Mold Shrinkage	0.0081 cm/cm	0.0081 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	84	84	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	0.82 %	0.82 %	ASTM D638
Tensile Modulus	8.10 GPa	1170 ksi	ASTM D638
Flexural Strength	84.0 MPa	12200 psi	ASTM D790
Flexural Modulus	7.50 GPa	1090 ksi	ASTM D790
Compressive Strength	195 MPa	28300 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.00 GPa	435 ksi	Calculated
Izod Impact, Notched	0.151 J/cm	0.283 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.172 J/cm ²	0.819 ft-lb/in ²	ASTM D256
Impact	96	96	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 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties	Temperature, Air	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)		166 °C	331 °F	ASTM D648
Flammability, UL94		V-1	V-1	
		@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index		31 %	31 %	ASTM D2863
Shrinkage		0.29 %	0.29 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.90e+11 ohm-cm	1.90e+11 ohm-cm	ASTM D247
Dielectric Constant	5.3	5.3	ASTM D150
Dielectric Strength	10.0 kV/mm	254 kV/in	Short Time; ASTM D149
Dissipation Factor	0.056	0.056	ASTM D150
Arc Resistance	150 sec	150 sec	ASTM D495
Comparative Tracking Index	175 V	175 V	ASTM D3638

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