

## Plenco 4485 Phenolic, Granular, Transfer 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-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-4485-Phenolic-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.620 g/cc	0.0224 lb/in <sup>3</sup>	ASTM D1895
Density	1.48 g/cc	0.0535 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.202 %	0.202 %	ASTM D570
Linear Mold Shrinkage	0.0048 cm/cm	0.0048 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	89	89	ASTM D785
Tensile Strength, Ultimate	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	0.79 %	0.79 %	ASTM D638
Tensile Modulus	9.00 GPa	1310 ksi	ASTM D638
Flexural Strength	94.0 MPa	13600 psi	ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	ASTM D790
Compressive Strength	208 MPa	30200 psi	ASTM D695
Poissons Ratio	0.35	0.35	ASTM D638
Shear Modulus	3.33 GPa	483 ksi	Calculated
Izod Impact, Notched	0.177 J/cm	0.332 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.206 J/cm <sup>2</sup>	0.980 ft-lb/in <sup>2</sup>	ASTM D256
Impact	107	107	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 $\mu\text{m}/\text{m}\cdot\text{°C}$	32.2 $\mu\text{in}/\text{in}\cdot\text{°F}$	TMA; ASTM E831
	@Temperature 40.0 - 130 °C	@Temperature 104 - 266 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	191 °C	376 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	
Oxygen Index	28.4 %	28.4 %	ASTM D2863
Shrinkage	0.186 %	0.186 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.20e+11 ohm-cm	3.20e+11 ohm-cm	ASTM D247
Dielectric Constant	5.8	5.8	ASTM D150
Dielectric Strength	11.5 kV/mm	292 kV/in	Short Time; ASTM D149
Dissipation Factor	0.054	0.054	ASTM D150
Arc Resistance	137 sec	137 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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