

## Plenco 7203 Phenolic, Granular, Transfer Molded

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

**Material Notes:**

PLENCO 07203 is an organic fiber reinforced phenolic molding compound, offering improved mechanical strength and an industrial finish.

UL recognized under component file E40654. 07203 is available in black. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-7203-Phenolic-Granular-Transfer-Molded.php](http://www.lookpolymers.com/polymer_Plenco-7203-Phenolic-Granular-Transfer-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.580 g/cc	0.0210 lb/in <sup>3</sup>	ASTM D1895
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.42 %	0.42 %	ASTM D570
Linear Mold Shrinkage	0.0074 cm/cm	0.0074 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	81	81	ASTM D785
Tensile Strength, Ultimate	41.0 MPa	5950 psi	ASTM D638
Elongation at Break	0.58 %	0.58 %	ASTM D638
Tensile Modulus	7.70 GPa	1120 ksi	ASTM D638
Flexural Strength	58.0 MPa	8410 psi	ASTM D790
Flexural Modulus	6.50 GPa	943 ksi	ASTM D790
Compressive Strength	181 MPa	26300 psi	ASTM D695
Poissons Ratio	0.34	0.34	ASTM D638
Shear Modulus	2.87 GPa	416 ksi	Calculated
Izod Impact, Notched	0.238 J/cm	0.446 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.254 J/cm <sup>2</sup>	1.21 ft-lb/in <sup>2</sup>	ASTM D256
Impact	145	145	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	188 °C	370 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	166 °C	331 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 6.00 mm	@Thickness 0.236 in	
Oxygen Index	27.5 %	27.5 %	ASTM D2863
Shrinkage	0.35 %	0.35 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.70e+11 ohm-cm	4.70e+11 ohm-cm	ASTM D247
Dielectric Constant	5.4	5.4	ASTM D150
Dielectric Strength	10.5 kV/mm	267 kV/in	Short Time; ASTM D149
Dissipation Factor	0.058	0.058	ASTM D150
Arc Resistance	128 sec	128 sec	ASTM D495
Comparative Tracking Index	150 V	150 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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