

## Plenco 4304 Phenolic, Nodular, Injection Molded

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

### Material Notes:

PLENCO 04304 is a heat resistant, mineral filled phenolic molding compound offering improved mechanical strength properties along with excellent dimensional stability. UL recognized under component file E40654. 04304 is available in black. Information supplied by Plenco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Plenco-4304-Phenolic-Nodular-Injection-Molded.php](http://www.lookpolymers.com/polymer_Plenco-4304-Phenolic-Nodular-Injection-Molded.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.670 g/cc	0.0242 lb/in <sup>3</sup>	ASTM D1895
Density	1.57 g/cc	0.0567 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.18 %	0.18 %	ASTM D570
Linear Mold Shrinkage	0.0064 cm/cm	0.0064 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell E	70	70	ASTM D785
Tensile Strength, Ultimate	52.0 MPa	7540 psi	ASTM D638
Elongation at Break	0.78 %	0.78 %	ASTM D638
Tensile Modulus	9.90 GPa	1440 ksi	ASTM D638
Flexural Strength	87.0 MPa	12600 psi	ASTM D790
Flexural Modulus	8.50 GPa	1230 ksi	ASTM D790
Compressive Strength	152 MPa	22000 psi	ASTM D695
Izod Impact, Notched	0.214 J/cm	0.401 ft-lb/in	ASTM D256
Charpy Impact, Notched	0.218 J/cm <sup>2</sup>	1.04 ft-lb/in <sup>2</sup>	ASTM D256
Impact	140	140	J/m Drop Ball Impact; PLENCO

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	190 °C	374 °F	Heat Resistance; ASTM D570D
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 6.00 mm	V-0 @Thickness 0.236 in	

<small>Common Index</small> Thermal Properties	<small>38 %</small> Metric	<small>38 %</small> English	<small>ASTM D2863</small> Comments
Shrinkage	0.15 %	0.15 %	72 hr, 120°C; ASTM D1299

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+11 ohm-cm	1.40e+11 ohm-cm	ASTM D247
Dielectric Constant	6.0	6.0	ASTM D150
Dielectric Strength	9.30 kV/mm	236 kV/in	Step by Step; ASTM D149
	11.4 kV/mm	290 kV/in	Short Time; ASTM D149
Dissipation Factor	0.056	0.056	ASTM D150
Arc Resistance	182 sec	182 sec	ASTM D495
Comparative Tracking Index	200 V	200 V	ASTM D3638

## Contact Songhan Plastic Technology Co.,Ltd.

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