

## Vyncolit W5000 Glass Fiber and Mineral Filled Novolac Phenolic

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

### Material Notes:

Novolac resin based, glass fiber and mineral filled. Excellent dimensional stability and very low coefficient of linear expansion and excellent chemical resistance at elevated temperatures in several hydraulic brake fluids. Specially used for Brake systems. Information provided by Sumitomo Bakelite North America, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Vyncolit-W5000-Glass-Fiber-and-Mineral-Filled-Novolac-Phenolic.php](http://www.lookpolymers.com/polymer_Vyncolit-W5000-Glass-Fiber-and-Mineral-Filled-Novolac-Phenolic.php)

Physical Properties	Metric	English	Comments
Bulk Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO 60
Density	2.08 g/cc	0.0751 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.060 %	0.060 %	ISO 62
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	ISO 527-1
Elongation at Break	0.40 %	0.40 %	ISO 527-1
Tensile Modulus	29.0 GPa	4210 ksi	ISO 527-1
Flexural Strength	180 MPa	26100 psi	ISO 178
Flexural Modulus	24.0 GPa	3480 ksi	ISO 178
Compressive Strength	360 MPa	52200 psi	ISO 604
Charpy Impact Unnotched	0.850 J/cm <sup>2</sup>	4.04 ft-lb/in <sup>2</sup>	ISO 179-1
Charpy Impact, Notched	0.280 J/cm <sup>2</sup>	1.33 ft-lb/in <sup>2</sup>	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	14.0 μm/m-°C	7.78 μin/in-°F	TMA
CTE, linear, Transverse to Flow	25.0 μm/m-°C	13.9 μin/in-°F	TMA
Deflection Temperature at 1.8 MPa (264 psi)	>= 211 °C	>= 412 °F	ISO 75 Af
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Thermal Properties	V-g Metric	V-g English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Shrinkage	0.020 %	0.020 %	Post Shrinkage; ISO 2577

Descriptive Properties	Value	Comments
Color	Dark Green	
Molding Method	Compression	
	Injection	
	Transfer	

## Contact Songhan Plastic Technology Co.,Ltd.

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