

## CRP Technology Windform® GT Polyamide Glass Composite

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Processed by selective laser sintering (SLS). Windform® GT is a deep and dark black composite material based on polyamide fiber glass. After hand finishing, the color becomes shining and brighter. Windform® GT differs from the other Windform® powders thanks to its higher flexibility. Windform® GT combines optimal characteristics of elasticity and ductility and resistance, thus it can be considered a highly valuable material in various racing and functional applications affected to vibration and shocks. In fact, the material has meaningful values of impact strength and elongation at break, which combined with relevant values of tensile strength and flexural strength make it ideal for applications where resistance to "damage" is a prerequisite. Windform® is resistant to moisture. Windform® GT is also a very light weight material with excellent mechanical properties per unit density. Applied in automotive applications where a certain flexibility in the car and under hood (such as snap fit) is required. It is also suitable in motorsport, air ducts, intake and cooling systems, the hydraulic ducts in contact with liquids or oils, in protective cover for sensors and for all applications that need a good flexibility and resistance to damage (for example: racing components near the ground). Information provided by CRP Technology.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CRP-Technology-Windform-GT-Polyamide-Glass-Composite.php](http://www.lookpolymers.com/polymer_CRP-Technology-Windform-GT-Polyamide-Glass-Composite.php)

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.21 MPa	8153 psi	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Elongation at Break	14.82 %	14.82 %	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Tensile Modulus	3.29 GPa	477 ksi	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Flexural Strength	87.9 MPa	12700 psi	UNI EN ISO 14125: 2000
Flexural Modulus	3.227 GPa	468.0 ksi	UNI EN ISO 14125: 2000
Charpy Impact Unnotched	5.428 J/cm <sup>2</sup>	25.83 ft-lb/in <sup>2</sup>	ISO 179-1:2007
Charpy Impact, Notched	0.869 J/cm <sup>2</sup>	4.14 ft-lb/in <sup>2</sup>	ISO 179-1:2007

Thermal Properties	Metric	English	Comments
Melting Point	193 °C	379 °F	ISO 11357-2
Deflection Temperature at 1.8 MPa (264 psi)	169.4 °C	336.9 °F	ASTM D648
Vicat Softening Point	188.9 °C	372.0 °F	10 N; ASTM D1252

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.62e+15 ohm-cm	2.62e+15 ohm-cm	ASTM D257-93
Surface Resistance	1.02e+16 ohm	1.02e+16 ohm	ASTM D257-93

Descriptive Properties	Value	Comments
Color	Black	
Surface Finish	1.15 Ra $\mu\text{m}$	After CNC Machining
	6.2 Ra $\mu\text{m}$	After SLS Process

## Contact Songhan Plastic Technology Co.,Ltd.

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