CRP Technology Windform® LX 2.0 Polyamide Composite

Category : Polymer , Rapid Prototyping Polymer , Thermoplastic , Nylon

Material Notes:

Processed by selective laser sintering (SLS). Windform® LX 2.0 has improved the already excellent performances of Windform® LX and this can be noticed from technical properties and sinterability point of view. Windform® LX 2.0 is a new polyamide based material reinforced with new generation glass fiber system. The properties of Windform® LX 2.0 make it particularly suited for functional applications and finished complex parts. Windform® LX 2.0 is a naturally black material and is characterized by improved Ultimate Tensile Strength, increased stiffness as well as a high level of resistance to temperature, while providing an attractive surface finish. Windform® LX 2.0 also underlines its advantage towards Windform® GF, PRO and PRO B, with an excellent rate between quality and price. Windform® LX 2.0 is perfect to create functional prototypes or finished parts that require reliability, good temperature resistance and a captivating matte black color.Sample applications: There are several fields of application: covers, latching systems, air intake systems, connectors, applications for drivers cockpit (e.i. steering wheel-mounted paddle shifters), but also cooling/ducted fans, UAV structural components, sport functional prototypes, performing design parts and stiff pieces for packaging, and other applications in the naval and aerospace industries.Information provided by CRP Technology.

Order this product through the following link:
http://www.lookpolymers.com/polymer_CRP-Technology-Windform-LX-20-Polyamide-Composite.php

Physical Properties	Metric	English	Comments
Density	1.311 g/cc	0.04736 lb/in³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.9 MPa	8690 psi	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Elongation at Break	2.3 %	2.3 %	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Tensile Modulus	6.248 GPa	906.2 ksi	UNI EN ISO 527-1(97) and UNI EN ISO 527-2(97)
Flexural Strength	92.2 MPa	13400 psi	UNI EN ISO 14125: 2000
Flexural Modulus	4.86 GPa	705 ksi	UNI EN ISO 14125: 2000
Charpy Impact Unnotched	1.814 J/cm²	8.633 ft-lb/in²	ISO 179-1:2007
Charpy Impact, Notched	0.437 J/cm²	2.08 ft-lb/in²	ISO 179-1:2007

Thermal Properties	Metric	English	Comments
CTE, linear	36.3 µm/m-°C @Temperature 60.0 - 110 °C	20.2 µin/in-°F @Temperature 140 - 230 °F	X direction
	118.4 µm/m-°C	65.78 µin/in-°F	

Thermal Properties	Metric	English	Comments
	@Temperature 60.0 - 110 °C	@Temperature 140 - 230 °F	Y direction
	194.2 µm/m-°C @Temperature 60.0 - 110 °C	107.9 µin/in-°F @Temperature 140 - 230 °F	Z direction
Melting Point	180.0 °C	356.0 °F	ASTM D3418
Deflection Temperature at 1.8 MPa (264 psi)	175.7 °C	348.3 °F	ASTM D648
Vicat Softening Point	177.8 °C	352.0 °F	10 N; ASTM D1525

Descriptive Properties	Value	Comments
Color	Black	
Surface Finish	1.5 Ra µm	After Finishing
	7.5 Ra µm	After SLS Process

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