# WINDFORM® LX 2.0

## Polyamide

CRP Technology s.r.l.

### Message:

Technology: Selective Laser Sintering

Windform<sup>®</sup> LX 2.0 has improved the already excellent performances of Windform<sup>®</sup> LX and this can be noticed from technical properties and sinterability point of view. Windform<sup>®</sup> LX 2.0 is a new polyamide based material reinforced with new generation glass fibre system. The properties of Windform<sup>®</sup> LX 2.0 make it particularly suited for functional applications and finished complex parts. Windform<sup>®</sup> LX 2.0 is a naturally black material and is characterised by improved Ultimate Tensile Strength (UTS), increased stiffness as well as a high level of resistance to temperature, while providing an attractive surface finish. Windform<sup>®</sup> LX 2.0 also underlines its advantage towards Windform<sup>®</sup> GF, PRO and PRO B, with an excellent rate between quality and price. Windform<sup>®</sup> LX 2.0 is perfect to create functional prototypes or finished parts that require reliability, good temperature resistance and a captivating matt black colour.

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.

#### Surface Finish: After SLS Process 7.5 Ra

After finishing (CNC machining) 1.5 Ra

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Filled		
	Good Strength		
	Good Surface Finish		
	High Heat Resistance		
Uses	Aerospace Applications		
	Automotive Applications		
	Marine Applications		
	Packaging		
	Protective Coverings		
	Prototyping		
	Sporting Goods		
Agency Ratings	EC 1907/2006 (REACH)		
Appearance	Black		
	Matte Finish		
Forms	Powder		
Processing Method	3D Printing, Laser Sintering/Melting		
Physical	Nominal Value	Unit	
Density (20°C)	1.31	g/cm <sup>3</sup>	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6250	MPa	ISO 527-2

Tensile Stress	59.9	MPa	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	4860	MPa	ISO 14125
Flexural Stress	92.2	MPa	ISO 14125
Tensile Modulus - per density unit	4770	MPa/g/cm <sup>3</sup>	
Ultimate Tensile Strength - per density unit	45.7	MPa/g/cm <sup>3</sup>	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.4	kJ/m²	ISO 179
Charpy Unnotched Impact Strength (23°C)	18	kJ/m²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8			
MPa, Unannealed)	176	°C	ASTM D648
Vicat Softening Temperature	178	°C	ASTM D1252 <sup>1</sup>
Melting Temperature	180	°C	ASTM D3418
NOTE			
1.	Loading 1 (10 N)		

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