

WINDFORM LX 2.0

CLASS OF MATERIAL: Polyamide based material

TECHNOLOGY: Selective Laser Sintering

Windform® LX 2.0 has improved the already excellent performances of Windform® LX. The evolution of the new Windform® LX 2.0 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 fibre 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 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® LX 2.0 is an advancement of its mechanical and thermal properties compared to the first release of Windform® LX and it underlines its advantage towards Windform® GF, PRO e 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 matt black colour.

APPLICATIONS:

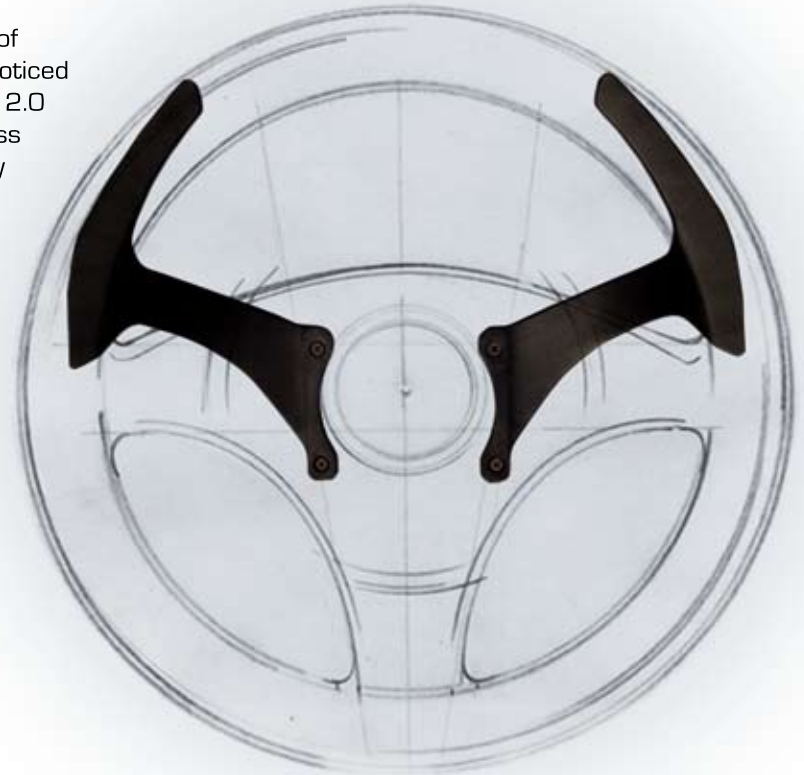
There are several fields of application: covers, latching systems, air intake systems, connectors, applications for drivers cockpit (for example steering wheel-mounted paddle shifters), but also cooling/ ducted fans, UAV structural components, sport functional prototypes, performing design parts and stiff pieces for packaging, and other applications in the naval and aerospace industries. These are just a few examples for Windform® LX 2.0. The versatility of the material, together with the technology will allow many new applications.

WHERE TO FIND WINDFORM® PRODUCTS

CRP Technology produces Windform® LX 2.0 parts and it also ships the material throughout Europe, the USA, and Japan. CRP Technology and its partners can offer customized service as regards time and delivery conditions, according to customer's requests anywhere in the world.

HOW TO GET WINDFORM® PRODUCTS

For any further information, quotations, and delivery times, please visit the official website www.windform.it or send an information request to info@crp.eu. CRP will contact you to answer all your questions.



**GOOD PROPERTIES
AT A GOOD VALUE,
THE WINNING FORMULA
WINDFORM LX 2.0**

WINDFORM LX 2.0

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PROPERTIES WINDFORM® LX 2.0	Test Method	SI Unity	Windform® LX 2.0
GENERAL PROPERTIES			
Density (20° C)		g/cm ³	1,311
Colour			BLACK
THERMAL PROPERTIES			
Melting Point	ASTM D 3418	°C	180
HDT, 1.82 Mpa	ASTM D 648	°C	175,7
Vicat 10N	ASTM D 1252	°C	177,8
MECHANICAL PROPERTIES			
Tensile Strength	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	Mpa	59,9
Tensile Modulus	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	Mpa	6248
Elongation at break	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	%	2,3
Flexural Strength	UNI EN ISO 14125: 2000	Mpa	92,2
Flexural modulus	UNI EN ISO 14125: 2000	Mpa	4860
Impact Stength - (23°C Charpy Unnotched)	ASTM D256 - UNI EN ISO 179:1998	KJ/m ²	18,14
Impact Stength - (23°C Charpy Notched)	ASTM D256 - UNI EN ISO 179:1998	KJ/m ²	4,37
SURFACE FINISH			
After SLS Process		Ra	7,5
After finishing (CNC Machining)		Ra	1,5
PROPERTIES PER DENSITY UNIT			
UTS per Density Unit		Mpa/(g/cm ³)	45,69
Tensile modulus per Density Unit		Mpa/(g/cm ³)	4765,8

Note: these are all indicative values. Data were generated from the testing of parts produced with Windform® LX 2.0 materials under optimal processing conditions.

Standard Technical Details for Accuracy versus Tolerance:

For parts up to 6" (150 mm) the standard tolerance is: +/- 0.012 inch (0,3 mm)

For parts more then 6" (150 mm) the standard tolerance is: +/- 0.002 inch per inch (0,05 mm per 25 mm)