

# WINDFORM<sup>®</sup> PRO B

**CLASS OF MATERIAL** : Composite Polyamide based powders

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## **TECHNOLOGY:** Selective Laser Sintering

WindForm<sup>®</sup> PRO B. Opaque black coloured composite polyamide based material with improved heat deflection temperature (HDT), great rigidity, wear resistance and superior elasticity in respect to the other Windform<sup>®</sup> products.

WindForm<sup>®</sup> PRO B offers a finish which presents a look of tendency, desirable for different applications including industrial and design. Superior price.

## **APPLICATIONS:**

Functional design objects, wind screen (fairing) also for wind tunnel, generic wind tunnel parts, electrical equipment (clips), packaging (aesthetics), objects which need to be resistant to vibrations or minimal flexion (clips, inserts). All the uses which we have indicated for each single product are only an example. The product's versatility together with the technology used allow countless possibilities of utilization.

## **WHERE YOU WILL FIND WINDFORM<sup>®</sup>**

CRP Technology operates with Windform<sup>®</sup> in the following markets: USA, Europe, Japan. CRP Technology proposes a personalised plan to it's clients for times and product delivery methods, according to the demands of the client.

## **WHERE AND HOW TO FIND WINDFORM<sup>®</sup>**

If you require ulterior information on the availability of our product, the closest distributor, or would like to ask for an estimate or verify delivery time availability, please visit our site [www.windform.it](http://www.windform.it) and send a request for information. It will be our pleasure to contact you directly and provide you with all requested information.

# WINDFORM<sup>®</sup> PRO B

<b>PROPERTIES WINDFORM<sup>®</sup> PRO B</b>	Test Method	SI Unity	Windform <sup>®</sup> PRO B
<b>GENERAL PROPERTIES</b>			
Density [20° C]		g/cm <sup>3</sup>	1,21
Colour			NERO OPACO
<b>THERMAL PROPERTIES</b>			
Melting Point	ASTM D 3418	°C	180
HDT, 1.82 Mpa	ASTM D 648	°C	128,9
Vicat 10N	ASTM D 1252	°C	178,7
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	Mpa	47,05
Tensile Modulus	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	Mpa	3612,4
Elongation at break	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	%	3,81
Flexural Strength	UNI EN ISO 14125: 2000	Mpa	96,14
Flexural Modulus	UNI EN ISO 14125: 2000	Mpa	3366,9
Impact Stength - Charpy Unnotched [23°C]	ASTM D 256 - UNI EN ISO 179:1998	KJ/m <sup>2</sup>	31,08
Impact Stength - Charpy Notched [23°C]	ASTM D 256 - UNI EN ISO 179:1998	KJ/m <sup>2</sup>	2,69
Impact Stength - Charpy Notched -30°C	ASTM D 256 - UNI EN ISO 179:1998	KJ/m <sup>2</sup>	2,70
<b>SURFACE FINISH</b>			
After SLS Process		Ra µm	6,0
After finishing		Ra µm	1,8
<b>ELECTRICAL PROPERTIES</b>			
Resistivity, Volume	ASTM D257-93	ohm x cm	2,2E+14
Resistivity, Surface	ASTM D257-93	ohm x cm	0,6E+15

**Note:** These are all indicative values, data were generated from the testing of parts produced with the Windform<sup>®</sup> PRO B 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)