

Windform LX

An alternative and more cost-effective material to Black EX with excellent conductivity properties. Very durable, black in appearance, and produces finer details and features on parts.

General Properties			
Color / appearance	black		
Density (20 °C)	ASTM D792	1,309	g/cm ³
Mechanical Properties			
Tensile modulus	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	5505	MPa
Tensile strength	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	51.9	MPa
Elongation at break	UNI EN ISO 527-1(97) UNI EN ISO 527-2(97)	2,1	%
Flexural strength	UNI EN ISO 14125 : 2000	83,5	MPa
Flexural modulus	UNI EN ISO 14125 : 2000	4963	MPa
Izod strength (23 °C Charpy unnotched)	ASTM D256 - UNI EN ISO 179 : 1998	16,59	KJ/m ²
Izod strength (23 °C Charpy notched)	ASTM D256 - UNI EN ISO 179 : 1998	4,63	KJ/m ²
Thermal Properties			
Melting point	ASTM D3418	180	°C
HDT, 1.82 Mpa	ASTM D648	173,4	°C
Vicat 10N	ASTM D1252	175,7	°C
Surface Finish			
After SLS process		7,4	Ra µm
After finishing		1	Ra µm
Properties per Density Unit			
UTS per density unit		39,65	Mpa* g/cm ³
Tensile modulus per density unit		4205,5	Mpa* g/cm ³

Note: these are all indicative values, data were generated from the testing of parts produced with Windform® LX 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 than 6" (150 mm) the standard tolerance is: ± 0.002 inch per inch (0.05 mm per 25 mm)

** The mechanical properties depend on the exposure parameters used. The data are based on our latest knowledge and are subject to changes without notice. They do not guarantee properties for a particular part and in a particular application.*