



erpro & sprint  
additive manufacturing

## CARACTERISTIQUES FRITTAGE CARBONE

General Properties			
Density (20°C)	1,101	g/cm <sup>3</sup>	
Color	Black		
Thermal Properties			
Melting point	179,33	°C	ASTM D 3418
DTUL, 1.82 Mpa	175,4	°C	ASTM D 648
Vicat 10N	178,1	°C	ASTM D 1252
Mechanical Properties			
Tensile Strength	77,85	Mpa	UNI EN ISO 527-1 (97) UNI EN ISO 527-2 (97)
Tensile Modulus	7320,8	Mpa	UNI EN ISO 527-1 (97) UNI EN ISO 527-2 (97)
Elongation at break	2,6	%	UNI EN ISO 527-1 (97) UNI EN ISO 527-2 (97)
Flexural Strength	131,52	Mpa	UNI EN ISO 14125: 2000
Flexural Modulus	6248,5	Mpa	UNI EN ISO 14125: 2000
Impact Strength			ASTM D 256
Unnotched Charpy 23°C	32,4	Kj/m <sup>2</sup>	UNI EN ISO 179: 1998
Impact Strength			ASTM D 256
Notched Charpy 23°C	4,73	Kj/m <sup>2</sup>	UNI EN ISO 179: 1998
Impact Strength			ASTM D 256
Notched Charpy -30°C	4,66	Kj/m <sup>2</sup>	UNI EN ISO 179: 1998
Surface Finish			
After SLS process	6,0	Ra µm	
After finishing	1,8	Ra µm	