PA + C

Properties	Test Method	SI Unity	Sinterizzato + Carbonio 50%
General Properties			
Density (20°)		g/cc	1,097
Colour	-	-	Black
Thermal Properties			
Melting point	EN ISO 11357-2	°C	179,30
HDT, 0,45 Mpa	EN ISO 75-2 TYPE A	°C	173,40
Vicat softening temperature B/50	EN ISO 306 TYPE A50	°C	176,10

Mechanical Properties	Test Method	SI Unity	Sinterizzato + Carbonio 50%
Tensile Strength	EN ISO 527	Mpa	83,84
Tensile Modulus	EN ISO 527	Mpa	8928,20
Elongation at break	EN ISO 527	%	3,8
Flexural Strength	EN ISO 178	Mpa	133,00
Flexural Modulus	EN ISO 178	Mpa	7338,2
Impact Strength Unnotched (Charpy 23°C)	EN ISO 179	KJ/m^2	22,43
Impact Strength Notched (Charpy 23°C)	EN ISO 179	KJ/m^2	4,72
Impact Strength Notched (Izod 23°C)	UNI EN ISO 189	KJ/m^2	19,26
Impact Strength Notched (Izod 23°C)	UNI EN ISO 189	KJ/m^2	5,30

Electrical Properties	Test Method	SI Unity	Sinterizzato + Carbonio 50%
Specific volume resistance	ASTM D257-93	Ω*cm	<10 ^ 8
Specific surface resistance	ASTM D257-93	Ω	<10 ^ 8
Surface Finish			
Surface Finish			
After SLS Process		Ra µ m	6,8
After finishing		Ra µ m	1,8
Property per density Unit			
UTS per density unit	IEC-93	Mpa/ (g/cc)	76,43
Tensile Modulus per density unit	IEC-93	Mpa/ (g/cc)	8138,74
Flexural Strenght per density unit	EN 60243-1	Mpa/ (g/cc)	121,24
Flexural Modulus per density unit	DIN 53483	Mpa/ (g/cc)	6689,33 10±0,5 (1MHz)