

**PA + Al 50%**

Properties	Test Method	SI Unity	Nylon + alluminio 50%
<b>General Properties</b>			
Density (20°)		g/cc	1,41
Colour	-	-	Aluminium
<b>Thermal Properties</b>			
Melting point	EN ISO 11357-2	°C	179,60
HDT, 1.82 Mpa	ASTM 64B Type B	°C	134,3
Vicat 10N	ASTM D1525-09	°C	168,70

Mechanical Properties	Test Method	SI Unity	Nylon + alluminio 50%
Tensile Strength	UNI EN ISO 527-1:1997	Mpa	50,60
Tensile Modulus	UNI EN ISO 527-1:1997	Mpa	4304
Elongation at break	UNI EN ISO 527-1:1997	%	4,60
Flexural Strength	UNI EN ISO 14125:2000	Mpa	80,20
Flexural Modulus	UNI EN ISO 14125:2000	Mpa	3430
Impact Strength Unnotched (Charpy 23°C)	UNI EN ISO 179:2007	KJ/m <sup>2</sup>	21,85
Impact Strength Notched (Charpy 23°C)	UNI EN ISO 179:2007	KJ/m <sup>2</sup>	4,72

Electrical Properties	Test Method	SI Unity	Nylon + alluminio 50%
Specific volume resistance	ASTM D257-93	Ω*cm	1,0x10 <sup>13</sup>
Specific surface resistance	ASTM D257-93	Ω	9,1x10 <sup>13</sup>
<b>Surface Finish</b>			
After SLS Process		Ra μm	6,0
After finishing		Ra μm	1,8
<b>Property per density Unit</b>			
UTS per density unit		Mpa (g/cc)	35,89
Dielectric breakdown strenght		Mpa (g/cc)	3052,48
Dielectric constant (1kHz)		Mpa (g/cc)	56,88
Dielectric loss factor (1kHz)		Mpa (g/cc)	2432,62