

Pc + 30% Al

Properties	Test Method	SI Unity	
General Properties			
Average grain size	ISO 13320-1	µm	60
Colour	-	-	Grey
Bulk density	EN ISO 61	g/cm ³	0,67
Density of laser-sintered part	EOS-method	g/cm ³	1,36
Thermal Properties			
Melting point	EN ISO 11357-1	°C	172 - 180
HDT, 0,45 Mpa	ASTM D648	°C	177
Vicat softening temperature B/50	EN ISO 306	°C	169

Mechanical Properties			
Tensile Strength	EN ISO 527	Mpa	48
Tensile Modulus	EN ISO 527	Mpa	3800
Elongation at break	EN ISO 527	%	4
Flexural Strength	EN ISO 178	Mpa	72
Flexural Modulus	EN ISO 178	Mpa	3600
Impact Strength Unnotched (Charpy 23°C)	EN ISO 179	KJ/m ²	29
Impact Strength Notched (Charpy 23°C)	EN ISO 179	KJ/m ²	4,6
Shore D - hardness	ISO 868	-	76

Electrical Properties			
Specific volume resistance	ASTM D257-93	Ω*cm	3*10 ¹⁴
Specific surface resistance	ASTM D257-93	Ω	5*10 ¹⁴
Surface resistance – 10V	IEC-93	Ω	3*10 ¹²
Volume resistance – 10V	IEC-93	Ω	6*10 ¹²
Dielectric breakdown strenght	EN 60243-1	kV/mm	0,1
Dielectric constant (1kHz)	DIN 53483	-	13±1,5 (100Hz) 10±0,5 (1MHz)
Dielectric loss factor (1kHz)	DIN 53483	-	0,018±0,002