PA11 ESD

ESD safe

Bio-sourced nylon material with heat resistance and ESD functionality.
Dedicated for electrostatic safe parts for electronic and automotive industries.

General properties		Method
Melting point	204 [°C]	internal
Heat deflection temperature at 1.8 MPa	103 [°C]	PN-EN ISO 75-2:2013-06
Printout density	1.03 [g/cm³]	internal
Printout water absorption	0.16 [%]	PN-EN ISO 62:2008
Colour	Grey	internal
Refresh ratio[1]	60 [%]	internal
Dedicated for	Lisa Pro[2]	
Nitrogen needed	Yes	

Mechanical properties		
Tensile Strength	46/50[7] [MPa]	PN-EN ISO 527-1:2012
Tensile Modulus (Young)	1850/2080[7] [MPa]	PN-EN ISO 527-1:2012
Flexural Strength	56 [MPa]	PN-EN ISO 178:2011
Flextrual Modulus	1240 [MPa]	PN-EN ISO 178:2011
Elongation at Break	27 [%]	PN-EN ISO 527-1:2012
Impact strenght (Charpy - unnotched)	59C [kJ/m²]	PN-EN ISO 179-1:2010
Shore Hardness in scale	D76	PN-EN ISO 868:2005

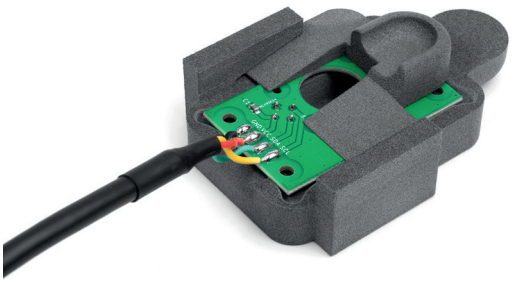
ESD properties		
Specific volume resistance	1.0x10⁵ [Ω]	IEC 62631-3-1
Specific surface resistance	5.3x10⁴ [Ω]	IEC 62631-3-2

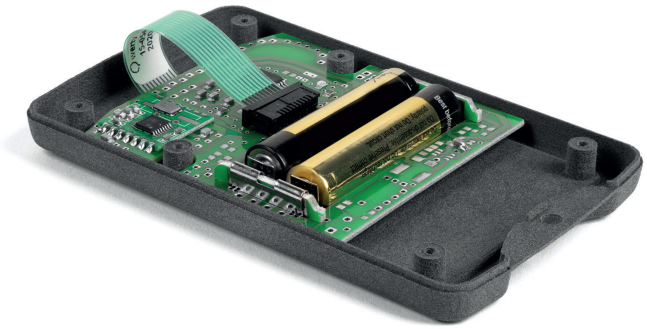
Applications

Tools and testers in electronics production, electronic casing, automotive parts, high-accuracy parts.

Functions

ESD safe material, better thermal properties, dimension stability, bio-sourced from castor oil.





[1] Refresh ratio is the amount of refreshing powder that is required to be mixed after the printing with unsintered material.
[2] Can be used only with Sinterit Studio Profiles or Advanced.
[7] Tested on virgin powder.

Information provided within this document are average values for reference and comparison only. Parameters presented in this specification are subject to change. Final part properties may vary based on printed part design and print orientation.