



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/cm ³]	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
Flextural Strength	56 [MPa]	PN-EN ISO 178:2011
Flextural Modulus	1240 [MPa]	PN-EN ISO 178:2011
Elongation at Break	27 [%]	PN-EN ISO 527-1:2012
Impact strenght (Charpy - unnotched)	59C [kJ/m ²]	PN-EN ISO 179-1:2010
Shore Hardness in scale	D76	PN-EN ISO 868:2005

ESD properties

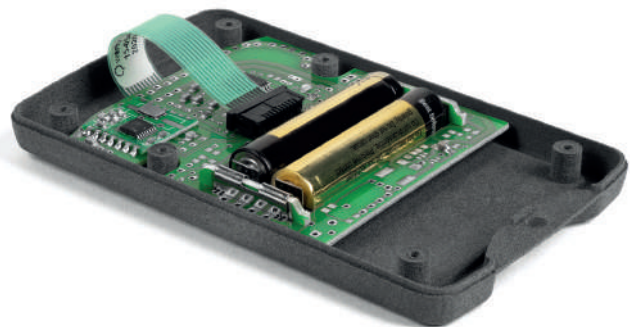
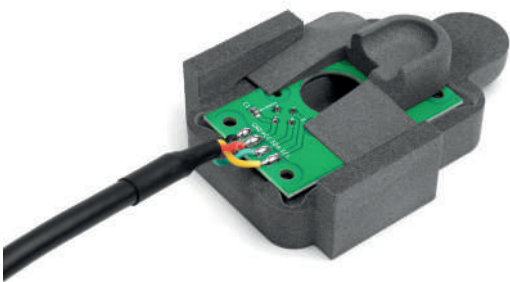
Specific volume resistance	1.0x10 ⁵ [Ω]	IEC 62631-3-1
Specific surface resistance	5.3x10 ⁴ [Ω]	IEC 62631-3-2

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.