



Aurora ESD

Aurora ESD (Electrostatic Discharge) is a material well suited for ESD-safe parts as housings for Electronic Control Units. This is because the material does not accumulate static electricity and won't risk damaging the electronic components. Aurora ESD is based on polyamide 11 with carbon fibers as an additive, which apart from the leading properties also makes the printed parts more rigid.

High
wear resistance

PA11 + CF
Polyamide thermoplastic
with added carbon fibers

Low
surface resistivity



Technical specifications

PROPERTY	VALUE	UNIT
DENSITY OF FINISHED PARTS	1,00	g/cm ³
DENSITY OF POWDER	0,53	g/cm ³
MELTING POINT	204	°C
TENSILE STRENGTH	65	Mpa
ELONGATION AT BREAK	20	%
TENSILE MODULUS	3150	MPa
FLEXURAL MODULUS	3050	MPa
SPECIFIC VOLUME RESISTIVITY	2.3*10 ⁶ (X-direction) 2.1*10 ⁵ (Y-direction)	Ωcm
SPECIFIC SURFACE RESISTIVITY	1.3*10 ⁴ (X-direction) 3.4*10 ⁴ (Y-direction)	Ω

Above values are measured at 23°C after drying 14 days at 80°C / vacuum. Water content is about 0.08% according to DIN EN ISO 15512

Typical applications

- **Functional testing and functional prototypes**
- **Parts for the automobile industry**
- **Industrial components**
- **Electronic Housings**
- **Jigs and fixtures for electronics**
- **Tooling**

Advantages

- **Superior mechanical properties**
- **High strength**
- **High wear resistance**
- **High surface resistivity**
- **Ideal to protect electrical voltages**

