



PP-ESD

Permanent Static-Dissipative Polypropylene
Compound

PRELIMINARY ENGINEERING DATA

DOCUMENT ID JPI-TDS-PP-ESD
ISSUE DATE 2026-07-22

OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A candidate permanent static-dissipative PP platform. 'Permanent' and 'humidity-independent' claims require resistance stability after conditioning, ageing, cleaning and multiple lots; they cannot be inferred from additive type. Applications: Electronics handling trays; ESD bins and housings; Industrial packaging. Key features: Permanent ESD target; Humidity-independent option; Colourable grades subject to system choice.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Surface resistance, conditioned plaque	IEC 61340-2-3; ■electrode/voltage/conditioning fixed	1×10 ⁶ -1×10 ⁹	Ω
Static decay	IEC 61340-2-1 or named customer method	To be established with ■exact setup	s
Density	ISO 1183-1	Defined by conductive ■technology	g/cm ³
Melt flow rate, 230°C/2.16 kg	ISO 1133-1	Defined by process sub- ■grade	g/10 min
Mechanical/thermal profile	ISO 527-2 / ISO 178 / ISO 179	To be established by sub- ■grade	
Resistance after humidity, heat ageing and cleaning	Defined ageing/cleaning protocol	Within approved ESD ■band	Ω

QUALIFICATION & USE

- Values are development targets, not a sales specification or certificate of analysis.
- Final limits require independent production-lot validation using the cited methods and controlled specimen preparation.
- Regulatory, food-contact, medical, UL, IEC, ATEX or OEM compliance applies only when confirmed in a grade-specific document.