



PP-CONDUCTIVE

Electrically Conductive Polypropylene Compound

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A conductive reinforced PP development grade for groundable components. Conductivity does not by itself establish EMI shielding, ATEX compliance or part grounding safety; each requires separate part-level verification. Applications: Groundable housings; Conductive trays and fixtures; Industrial/electronic components. Key features: Low surface-resistance target; High stiffness option; Injection-moulding development grade.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Surface resistance, conditioned plaque	IEC 61340-2-3; setup fixed	1×10 ² -1×10 ⁴	Ω
Melt volume-flow rate, 230°C/2.16 kg	ISO 1133-1	0.2-0.5	cm ³ /10 min
Melt volume-flow rate, 230°C/10 kg	ISO 1133-1	30-40	cm ³ /10 min
Density	ISO 1183-1	1.08-1.14	g/cm ³
Tensile strength, 23°C	ISO 527-2	60-75	MPa
Flexural modulus, 23°C	ISO 178	4,000-5,500	MPa
Notched Charpy impact, 23°C	ISO 179-1/1eA	≥ 7	kJ/m ²
HDT, 1.80 MPa	ISO 75-2	≥ 120	°C
Electrical stability after moulding/ageing	Defined orientation and ageing protocol	Within approved conductive 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.