



rPP-TD20

20% Mineral-Filled Recycled-Content PP Compound

PRELIMINARY ENGINEERING DATA

DOCUMENT ID JPI-TDS-rPP-TD20
ISSUE DATE 2026-07-22

OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A controlled recycled-content PP compound platform for non-safety durable parts. Recycled-content claims require verified feedstock traceability and mass balance. Applications: Automotive non-safety trim; Appliance/industrial housings; Pallets, crates and durable goods. Key features: 50% recycled-content target; Controlled mineral loading; Lot-to-lot QC and odour/VOC development.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Physically incorporated PCR content	Verified BOM + supplier chain-of-custody evidence	≥ 50	wt.% of final compound
Inorganic residue (mineral-correlated)	ISO 3451-1; validated formulation mass balance	20 ± 2	wt. %
Melt flow rate, 230°C/2.16 kg	ISO 1133-1	5 ± 2	g/10 min
Density	ISO 1183-1	1.06-1.10	g/cm³
Tensile stress at yield	ISO 527-2	≥ 25	MPa
Flexural modulus	ISO 178	≥ 2,000	MPa
Notched Charpy impact, 23°C	ISO 179-1/1eA	≥ 3	kJ/m²
Odour / VOC / contamination / restricted substances	Named customer + screening protocol	To be established	

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.