



TPO-I20

Automotive Interior TPO – 20% Mineral Filled

PRELIMINARY ENGINEERING DATA

DOCUMENT ID JPI-TDS-TPO-I20
ISSUE DATE 2026-07-22

OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

Impact-modified mineral-filled PP/TPO designed for interior trim with a balanced stiffness/impact profile and low- emission development target. Applications: Door trim; Pillar trim; Console and interior covers. Key features: Impact/stiffness balance; Scratch-resistant option; Low-odour/VOC development target.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
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	18 ± 3	g/10 min
Density, 23°C	ISO 1183-1	1.03-1.05	g/cm³
Tensile stress at yield, 23°C	ISO 527-2	18-22	MPa
Flexural modulus, 23°C	ISO 178	1,700-2,100	MPa
Notched Charpy impact, 23°C	ISO 179-1/1eA	20-30	kJ/m²
Notched Charpy impact, -30°C	ISO 179-1/1eA	2-5	kJ/m²
HDT, 0.45 MPa, unannealed	ISO 75-2	95-105	°C
Odour / VOC / fogging / scratch	Named OEM or customer method	To customer limit	

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.