



PP-GF40

40% Glass-Fibre Reinforced Polypropylene

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A high-performance, heat-stabilised structural PP compound for high-stiffness parts and metal-replacement development. Applications: Structural appliance parts; Industrial supports; Under-hood technical components. Key features: Very high modulus; High heat resistance; Low creep under load.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Inorganic residue (glass-correlated)	ISO 3451-1; validated formulation mass balance	40 ± 1.5	wt. %
Melt flow rate, 230°C/2.16 kg	ISO 1133-1	5.5 ± 2	g/10 min
Density, 23°C	ISO 1183-1	1.20-1.24	g/cm³
Tensile strength, 23°C	ISO 527-2	88-98	MPa
Flexural modulus, 23°C	ISO 178	7,000-8,000	MPa
Notched Izod impact, 23°C	ASTM D256	70-90	J/m
HDT, 1.82 MPa, unannealed	ASTM D648	145-160	°C
Residual fibre-length distribution	Validated burn-off + microscopy	To be established	µm
Mould shrinkage, flow/transverse	ISO 294-4	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.