



PP-GF30

30% Glass-Fibre Reinforced Polypropylene

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A medium-high-flow structural PP compound for demanding moulded components with high stiffness and strength. Applications: Pump and appliance components; Industrial brackets; Automotive technical parts. Key features: High stiffness and strength; Low creep; Low CLTE design target.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Inorganic residue (glass-correlated)	ISO 3451-1; validated formulation mass balance	30 ± 1.5	wt. %
Melt flow rate, 230°C/2.16 kg	ISO 1133-1	14 ± 3	g/10 min
Density, 23°C	ISO 1183-1	1.10-1.13	g/cm³
Tensile strength, 23°C	ISO 527-2	85-95	MPa
Flexural modulus, 23°C	ISO 178	5,500-6,500	MPa
Notched Charpy impact, 23°C	ISO 179-1/1eA	8-11	kJ/m²
HDT, 1.80 MPa, unannealed	ISO 75-2	140-150	°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.