



PP-GF20

20% Glass-Fibre Reinforced Polypropylene

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

Chemically coupled PP compound combining useful stiffness, strength and heat resistance with practical injection flow. Applications: Appliance frames; Electrical and industrial parts; Under-hood non-safety components. Key features: Chemically coupled; Higher heat resistance; Improved creep resistance.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Inorganic residue (glass-correlated)	ISO 3451-1; validated formulation mass balance	20 ± 1	wt. %
Melt flow rate, 230°C/2.16 kg	ISO 1133-1	5 ± 2	g/10 min
Density, 23°C	ISO 1183-1	1.03-1.06	g/cm³
Tensile strength, 23°C	ISO 527-2	65-72	MPa
Flexural modulus, 23°C	ISO 178	3,700-4,300	MPa
Notched Izod impact, 23°C	ASTM D256	65-85	J/m
HDT, 1.82 MPa, unannealed	ASTM D648	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.