



PP-g-MAH

Maleic-Anhydride-Grafted Polypropylene Coupling Agent

PRELIMINARY ENGINEERING DATA

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OWNER TECHNICAL & R&D
STATUS CONTROLLED DEVELOPMENT DATA

PRODUCT OVERVIEW

A functionalised PP platform for coupling glass/natural fibres and mineral fillers, improving interfaces in PP compounds and selected blends. Applications: PP-GF compounds; Natural-fibre PP; Mineral-filled PP and selected PP/PA blends. Key features: Reactive coupling functionality; Improved filler/fibre adhesion target; Pellet form for dry blending.

PRELIMINARY TECHNICAL PROPERTIES

PROPERTY / CONDITION	TEST METHOD	PROVISIONAL VALUE	UNIT
Melt flow rate, 230°C/2.16 kg	ISO 1133-1	10 ± 2	g/10 min
Density, 23°C	ISO 1183-1	0.90-0.92	g/cm³
Melting peak	ISO 11357-3	165 ± 5	°C
Vicat softening temperature, A50	ISO 306	145 ± 7	°C
Total acid functionality / calibrated graft level	Extraction + titration and calibrated FTIR	To be established	mg KOH/g or wt. %
Free MAH / extractables / volatile content	Validated extraction + GC/HPLC	To be established	wt. %
Gel fraction	Validated solvent extraction	To be established	wt. %
Coupling performance in defined PP-GF30 reference	Controlled compounding + ISO mechanical testing	Minimum gain to be established	
Recommended addition	Compound DOE	1-5	%

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.