



PP + 30% SHORT CHOPPED GLASS FIBER COUPLING AGENT COMPARISON

In this report, we tested the effectiveness of Fusabond P353 and GRAFTABOND™ PPH-MAH 70025 CA as coupling agents in polypropylene, filled with 30% short chopped glass fibers.

MATERIALS USED

Base PP: Resinex PP RXP 2004

Glass Fibers: Thermoflow 636

Coupling Agent:

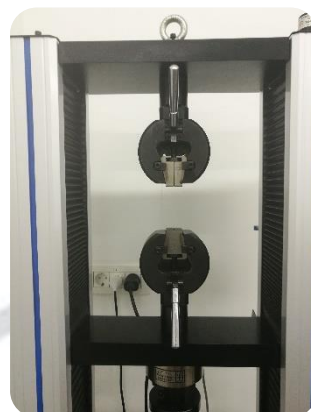
	FUSABOND P353	GRAFTABOND™ PPH-MAH 70025 CA	
MFI _(160°C, 0,325 kg) :	22,4 g/10 min	MFI _(190°C, 0,325 kg) :	20 g/10 min
Grafting Degree:	1,3 – 1,9 %	Grafting Degree:	≈ 2,5 %

TESTS PERFORMED

Both blends were prepared in composition: 30% GF, 69% PP, 1% Coupling Agent.

The blends were extruded on a 36D extruder and specimen were injection molded into A1 specimen size.

Tensile (ISO 527-2) and Charpy (ISO179, Specimen size & orientation: 1eU) tests were performed with the specimen.



RESULTS

Property	Units	Fusabond P353	GRAFTABOND™ PPH-MAH 70025 CA
Max. Tensile Stress	MPa	92,95	100,2
Elongation at Break	%	5,1	5,1
Charpy Impact Strength	kJ/m ²	34,1	33,8

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Material Report

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