GRAFT POLYMER - Intelligent Polymer Solutions

Founded in Slovenia in 2017, Graft Polymer d.o.o. is a leader in advanced polymer modification and the creation of unique polymer alloys. We leverage proprietary methods, including plasma ozone, extrusion grafting, solid-phase, and vacuum reactors, to significantly enhance polymer performance across various applications.

Our intelligent solutions are strategically designed for substantial market expansion throughout Europe and emerging markets. Our state-of-the-art manufacturing plant in Slovenia specializes in polymer modification, offering both standard and custom-made products for diverse industries.

Through our cutting-edge R&D capabilities, we consistently deliver innovative solutions that boost performance, promote sustainability, and improve overall efficiency.

Advanced Manufacturing Capabilities

Our state-of-the-art Slovenian plant leverages proprietary technologies to deliver high-performance polymer solutions efficiently, catering to a global market.

Our facility includes:

- 2 double screw extrusion lines (75D) with an output of 200-400 kg/h
- 1 lab double screw extrusion line (36D) for R&D and small-scale production
- 2 solid-phase reactors (150L each) for smaller batch processing
- 2 solid-phase reactors (500L each) for large-scale polymer modification
- 2 vacuum conical reactors (1000L each) for high-efficiency polymer processing
- Plasma ozone modification set for advanced surface treatment of fluoropolymers and fillers

Modern Production Facility

Dedicated plant in Slovenia for high-volume, efficient polymer modification and alloy production.

Proprietary Grafting Technologies

Utilizing plasma ozone, extrusion grafting, solid-phase, and vacuum reactors for precise material engineering.

Flexible & Diverse Offerings

Producing a wide range of standard and custom-made polymer solutions to meet varied industry needs.

Innovation-Driven Production

Manufacturing processes continuously enhanced by cutting-edge R&D, ensuring superior performance and sustainability.

GRAFTABOND™

GRAFTABOND™ represents a sophisticated line of graft and block copolymers, engineered as adhesion promoters to enhance the compatibility and bonding between diverse polymer matrices and various reinforcement materials. These include fiberglass, carbon fiber, mineral and natural fillers, and components from mixed polymer waste streams.

	Grades	Base	Monomer	Melt Flow (g/10 min)	Grafting [%]
For PP compounds	GRAFTABOND PP 01015MG GFCA GRAFTABOND PP 02020MG MCCA GRAFTABOND PP 02020MGT CA	PP	MAH/GMA/TIPT	100-300	>1
	GRAFTABOND PP-MAH TL	PP	MAH	1-20	1-3
	GRAFTABOND PP-GMA C	PP	GMA	1-20	2-5
	GRAFTABOND PP-SAN C	PP	SAN	1-20	2-5
For PA	GRAFTABOND EP-MAH 00110 IM	EPDM	MAH	~1	~1
	GRAFTABOND PO-MAH 00110 IM *MFI can be adjusted accordingly.	POE	MAH	~1	~1

CA=Coupling Agent; TL=Tie Layer; C=Compatibilizer; IM=Impact Modifier; A=Adhesive

GRAFTABOND™

Additional GRAFTABOND™ products for specialized applications, including advanced coupling agents and impact modifiers for demanding industrial requirements.

	Grades	Base	Monomer	Melt Flow (g/10 min)	Grafting [%]
For PE compounds	GRAFTABOND PE-MAH TL	PE	MAH	1-20	1-3
	GRAFTABOND PE-GMA C	PE	GMA,MAH	1-20	2-5
	GRAFTABOND PE-SAN C	PE	SAN	1-20	2-5
For TPU compounds	GRAFTABOND TPU-MAH IM	TPU	MAH	~1	~1
	GRAFTABOND TPU-GMA IM	TPU	GMA	~1	1-2
For compounds	GRAFTABOND SEBS	SEBS	MAH	1-10	1-3
	GRAFTABOND ASA	ASA	MAH, GMA	10-15	3-5
	GRAFTABOND ABS	ABS	MAH, GMA	10-15	3-5

CA=Coupling Agent; TL=Tie Layer; C=Compatibilizer; IM=Impact Modifier; A=Adhesive

GRAFTABOND™

GRAFTABOND™ - a line of graft/block copolymers (adhesion promoters) designed for enhancing the compatibility of various polymers with materials such as fiberglass, carbon fiber, mineral and natural fillers, and mixed polymer waste streams.

	Grades	Base	Monomer	Grafting Degree (%)
UH modified powders	GRAFTABOND UHP-MAH 00030	UHP	MAH	3
	GRAFTABOND UHP-GMA 00030	UHP	GMA	5
	GRAFTABOND UHP-SAN 00050	UHP	SAN	5
PVC-based modifiers	GRAFTABOND PVC-MAH 00025 C	PVC	MAH	2.5
	GRAFTABOND PVC-VA 00010 C	PVC	VA	1
	GRAFTABOND PVC-BA 00020 C	PVC	BA	2
Modified Waxes	GRAFTABOND PEW-MAH	PE wax	MAH	1.5-3
	GRAFTABOND PEW-GMA	PE wax	GMA	1-5
	GRAFTABOND PPW-MAH	PP wax	MAH	1-5

GRAFTALEN™

GRAFTALEN™ - a line of reactive solid super-concentrates for polyolefin rheology modification, E-Modulus enhancement, PET/PBT chain extension, and use as an AOX masterbatch.

Grades	Base	Active Component	Application
GRAFTALEN MB PP-EM 70090	PP	SAN/Fillers	E-Modulus Enhancer
GRAFTALEN MB PEROXIDE		Peroxide 10%, 15%, 20%	Rheological modifier for (PP,PE)
GRAFTALEN SA	SA	Chemicals	Lubricant

GRAFTAPOR™

A unique line of porous polymer carriers (70-85% porosity) designed for efficient absorption and controlled release of liquid chemicals.

GRAFTAMID™

A unique line of high-temperature elastomers formulated from nanostructured polyolefin-polyamide alloys. These provide high-performance hardening modification for polyamide compounds and serve as independent compounds in applications such as the cable industry and hot melt adhesives.

GRAFTAPOR™

	Base	Porosity %
GRAFTAPOR LD 00480	LDPE	80
GRAFTAPOR LL 02080	LLDPE	80
GRAFTAPOR HD 02080	HDPE	80
GRAFTAPOR EBA 15080	EBA	80
GRAFTAPOR EVA 15080	EVA	80
GRAFTAPOR PP 02080	PP	80
GRAFTAPOR SEBS 01080	SEBS	80
GRAFTAPOR POE 00880	POE	80

GRAFTAMID™

Grades	Base	**Branch Polymer**
GRAFTAMID EB-PA6	EBA	PA6
GRAFTAMID EB-PA66	EBA	PA66
GRAFTAMID PO-PA6	POE	PA6
GRAFTAMID EB-PA12	EBA	PA12
GRAFTAMID EB-PA46	EBA	PA46
GRAFTAMID EB-COPA	EBA	COPA
GRAFTAMID EV-COPA	EVA	COPA

Custom Grades Available

GRAFTAKIT™ offers reactive liquid or solid super-concentrates delivered on polymeric porous media. These are designed for on-site reactive extrusion and modification of compounds, making them particularly valuable in the production of non-woven polymer products, blow molding, foaming, and for cable, pipe, and packaging applications.

Grades	Application	Base	Active Component	% of Active Component
GRAFTAKIT PP\HD-A18750	A-187 Silane MB	PP, HDPE	A-187	50
GRAFTAKIT EB-PDMS 15050	PDMS MB	EBA	PDMS	50
GRAFTAKIT EB-PIB 00750	PIB MB	EBA	PIB	50
GRAFTAKIT EB-PBD 00750	PBD MB	EBA	PBD	50
GRAFTAKIT PO-DS	"Dry Silane" MB for MONOSIL	LDPE, HDPE, EBA, EVA	Silane Formulation	~50
GRAFTAKIT HMSPP	Melt Strength Enhancer	LDPE, EBA	PBD/TMPTA/TEMPO	50
GRAFTAKIT PEX-b	MB for "SIOPLAS"	PE	Silane/Peroxide	50
GRAFTAKIT FS	MB for Fog Suppression	PP/EB	OSA	50
GRAFTAKIT PO-BIB	Peroxide MB	PO	BIB	20-50
GRAFTAKIT NW PO 50	"Peroxide-free" MB	PO	TEMPO	50
GRAFTAKIT E-MAH 00550	Copolymer for PA IM, CE	EBA	MAH	50
GRAFTAKIT EB-EMAH 15020	Copolymer for PA IM, CE	EBA	MAH	20

Available as **Standard** and **Custom-Made** grades.

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GRAFTALLOY™ - a line of polymer-polymer nano-alloys designed to enhance key material properties such as abrasion resistance, thermal stability, and impact strength, while also reducing the friction coefficient.

Grades	Main Chain Polymer	Branch Polymer
GRAFTALLOY COPE-SB	COPE	SBC
GRAFTALLOY COPE-EB	COPE	EBA
GRAFTALLOY COPE-PO	COPE	PO
GRAFTALLOY COPE-EP	COPE	EP
GRAFTALLOY LD-PS	LDPE	PS
GRAFTALLOY MP-UHHD	UHHD	HD

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GRAFTASYNT™ - a line of specialized synthetic products, including highly efficient, halogen-free flame retardants (HFFR) that are effective even at the lowest dosages. These are applicable across various polymers, including epoxies, polyurethanes, polyesters, polyamides, and polyolefins.

Grades	Base	Application	Physical Form
GRAFTASYNT GB-RGT	Modified Glycerol Borate/TEMPO	HFFR for PA, Epoxy, PU	Liquid
GRAFTASYNT GB-RDP	Modified Glycerol Borate	HFFR for PVC	Liquid
GRAFTASYNT GB-TEMPO	Modified Glycerol Borate	HFFR for PA, Epoxy, PU	Liquid

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GRAFT POLYMER
COMBINE INCOMPATIBLE