

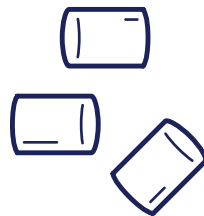


Product Range **Plastics**

KRAHN

Your high-performance partner for specialty chemicals.

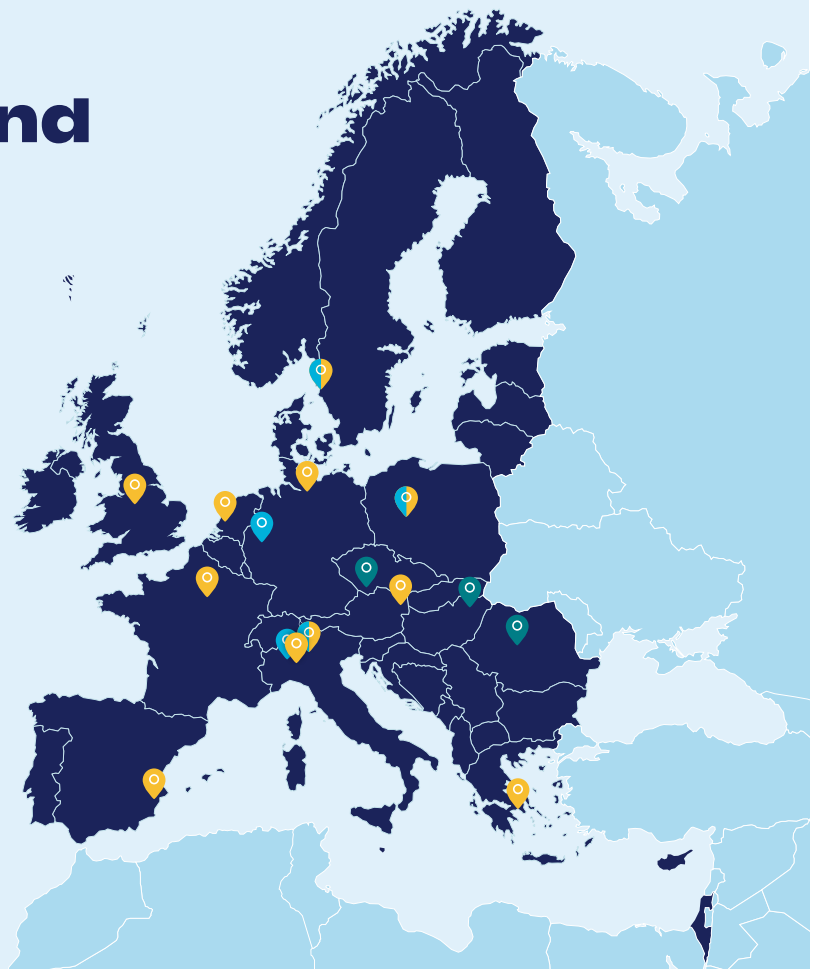
We are a leading independent chemical business providing sales, marketing and distribution services and are recognized world-wide for our technical expertise and high-quality product portfolio as well as in-house laboratory support. Everything we do is with passion and commitment and always with an eye on the best possible outcome.



Plastics

Our locations

Thinking global and acting local



KRAHN Subsidiaries

- | | |
|--|--|
|  Hamburg |  Athens |
|  Zaandam |  Gothenburg |
|  Milan and Berbenno |  Sandbach |
|  Poznań |  Aspe |
|  Avon |  Vienna |

Sales offices

- | |
|--|
|  České Budějovice |
|  Tiszaújváros |
|  Sibiu |

Laboratories

- | |
|--|
|  Bottrop |
|  Poznań |
|  Gothenburg |
|  Lainate and Berbenno |

Warehouses

Many warehouses across Europe, also with possibilities for bulk breaking

Additives

Product Group	Product Name	Producer	Product Description
Diols	EH Diol	Gulf Chemical International	2-ethylhexanediol-1,3 as chain extender and modifying agent for PU systems.
Processing Aids and Impact modifiers	PA, IM	LG Chemicals Ltd	Processing aids are polymeric additives to improve PVC gelation & mechanical properties. PA are used in various applications with focus on circular economy. IM is a modifying agent that improves the performance of plastic, is a material in powder form, and it has ductility like rubber, therefore, it improves strength against impact by absorbing or dispersing (diffusing) external fracture energy.
Surface modification PVC additive	Vinnolit C 100 V, K 221, K 240	Westlake Vinnolit	Enhances surface characteristics such as adhesion, printability, and smoothness. These products are designed to improve the interaction between the PVC surface and external agents like inks or adhesives.

Fillers

Product Group	Product Name	Producer	Product Description
Azodicarbonamide	UNIFOAM AZ	Hebron	UNIFOAM AZ range is standard range of azodicarbonamide, the most commonly used chemical blowing agent in the production of foamed plastic and rubber.
	UNIFOAM AZ Ultra	Hebron	UNIFOAM AZ Ultra is an organic chemical blowing agents in powder form, low dust and anticaking, used in the production of foamed plastic and rubber.
Impact modifier	MB/IM/EM	LG Chemicals	Methylmethacrylate-Butadiene Styrene and Acrylic Impact modifiers are used in thermoplast applications. Thanks to its unique combination of beneficial properties: excellent improvement of physical properties and excellent sound absorption properties, insensitive to heat and cold with excellent UV stability for outdoor applications.
Kaolin	KaMin®	KaMin	KaMin kaolin clays are aluminium silicates available in treated and untreated form. Kaolin is used in rubber and plastics to increase strength properties and as a viscosity modifier.
	Nylok® 171	KaMin	Amino silane treated calcined kaolin that reinforces polyamide resin systems.
	Polyfil WC	KaMin	Organo-functional calcined kaolin clay.
	Polyfil DL	KaMin	Fine particle size vinyl-functional calcined clay.
	Polyfil DLX	KaMin	Large particle size, very high aspect ratio, delaminated clay.
	Polyfil HG	KaMin	Ultra-fine particle size, moderate brightness water washed kaolin clay.
Lightweight fillers	Aeropor	Aeropor GmbH	Aeropor is an expanded aluminosilicate from natural origin. It is a closed-pored light weight aggregate. Aeropor is used for many thermoplast and thermoset applications thanks to its unique combination of beneficial properties: low density and pressure stable, health friendly material with excellent thermal insulating and excellent sound absorption properties, insensitive to heat and cold.
Microspheres	Expancel	Nouryon	Expancel expandable microspheres are small spheres encapsulating a gas. When heated, they will dramatically increase in volume. Expancel is available unexpanded and expanded both wet and dry. It can be used as a blowing agent, weight reducer and property improver in many different applications. The expansion capacity and low density along with a closed cell structure and excellent compressibility give benefits to numerous other products.
Pentaphenyl-cyclopentadienyl	ENDOFOAM	Hebron	Advanced additives engineered to enhance foaming processes in thermoplastic applications. Widely used for foaming extruded polypropylene (PP) and polyethylene (PE) pipes, profiles, and PVC extruded sheets. Additionally, they are effective in reducing sink marks, lowering cycle times in injection molding, and facilitating nucleation in various manufacturing processes.

Flame Retardants

Product Group	Product Name	Producer	Product Description
Aluminium trihydrate	ATH	LKAB Minerals	Aluminium trihydrate, also known as aluminium trihydroxide or alumina trihydrate, is derived from bauxite ore. This natural ore is refined to a fine white powder. After washing and drying it is used as the feedstock for a wide range of alumina chemicals.
Diphenyl sulfone sulfonate and diphenyl sulfone disulfonate	KSS-FR HES-FR	Arichem	Halogen-free formulations, especially designed for PC and PC/ABS applications, transparent and opaque, that meet the requirements of the classification UL 94 V-0.
Halogen Free Flame Retardants	SP-100	Hebron	A halogen-free, phosphazene-based flame retardant with high phosphorus content. It offers excellent thermal stability, hydrolysis resistance, and low electrical degradation, making it ideal for epoxy composites, printed circuit boards, engineering polymers, polycarbonate systems and 3D printing applications.
HydroMagnesite Huntite	UltraCarb	LKAB Minerals	UltraCarb is a halogen free fire retardant produced from natural deposits containing two minerals: hydromagnesite and huntite. This unique mineral combination is known as HMM.
Phosphates	Santicizer® Santicizer® Plus	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. The phosphate ester based materials are non-halogen with high plasticizing efficiency, great compatibility in multiple polymer systems and fast fusion in PVC applications. Now available in TPP < 0.1% versions with Plus series.

Pigments

Product Group	Product Name	Producer	Product Description
Colorants	Auricolor™ Plasticolor	Vibrantz	Solvent free colorants for coloration of various thermoplastics, in particular packaging, house ware and toy industries (CB) or thermoset polyester applications (PE).
Titanium dioxide slurries	Hydrasperse EU Solvasperse IND	Vibrantz	TiO ₂ pigment pastes, available with various carriers to re-quired chemistry of the formulations. TiO ₂ pigments are with organic and inorganic treatments. Pigment pastes contains high solid content with good opacity, colour strength to meet excellent light and weather resistance.

Plasticizers

Product Group	Product Name	Producer	Product Description
Addipates	Cereplas DOA, DIDA, DTDA	Valtris Specialty Chemicals	Adipate esters used in grease formulations due to biodegradability and low temperature performance.
Benzyl phthalates	Santicizer® 261A Santicizer® 278	Valtris Specialty Chemicals	Phthalate based plasticizers, combining the following properties: Low volatility, excellent extraction resistance and a good compatibility with a wide variety of resins.
Bio-based primary plasticizer	Santicizer® Platinum G-2030	Valtris Specialty Chemicals	Santicizer Platinum G-2030 is an efficient bio-based primary plasticizer that offers excellent heat stability, enhanced processability, and lower volatility than traditional general-purpose plasticizers
Citrates	CRANE® PL-11001	KRAHN Chemie	Bio-based plasticizer. Good compatibility with other polymers. It is applied in products with food contact.
Cyclohexanoates	Santicizer® Platinum P-330 Platinum® P-1400 Platinum P-1700	Valtris Specialty Chemicals	Phthalate free and fast fusing plasticizer which shows a high compatibility and efficiency, and performs by high permanence and low water solubility. Recommended for many applications, like plastisol, foam, sealant, calendaring, extrusion and films.
Monobenzoates	Jayflex™ MB 10	ExxonMobil Chemical	Low viscous fast fusing plasticizer with favourable gelation properties providing a low, constant paste viscosity and a comparatively low volatility. Also compatible in combination with other standard plasticizers.
Phosphate ester	Santicizer® Santicizer® Plus	Valtris Specialty Chemicals	Specialty plasticizers offering flame retardant and smoke suppressing properties. The phosphate ester based materials are non-halogen with high plasticizing efficiency, great compatibility in multiple polymer systems. Now available in TPP < 0.1% versions with Plus series.
Phthalates	Jayflex™ DINP	ExxonMobil Chemical	High molecular special plasticizer on phthalate basis, compatible with various polymers. Due to its excellent fogging and migration values it is suitable for wider range of applications.
	Jayflex™ DIDP DIUP	ExxonMobil Chemical	High molecular special plasticizer on phthalate basis, compatible with various polymers. Due to its excellent fogging and migration values it is suitable for car interior parts and for high temperature range.
	Jayflex™ DTD	ExxonMobil Chemical	High molecular special plasticizer, compatible with various polymers. Due to its high molecular weight and the especially low volatility, it is recommended for use in high temperature applications.
	Jayflex L9	ExxonMobil Chemical	Linear trimellitate plasticizer for flexible PVC applications: automotive cable Class C (3000 h 125 oC), WTC cables, plenum cables, interior automotive, refrigerator gaskets, lubricant applications (engine, compressor, gear oils, etc.).
Polymeric adipates	Santicizer®	Valtris Specialty Chemicals	Polymeric plasticizer, which provide outstanding migration and extraction resistance. Application in film food packaging, cable and tube.
	CRANE® PL	KRAHN Chemie	Polymeric plasticizer, which provide outstanding migration and extraction resistance. Application in film food packaging, cable and tube.
Recycled plasticizer	rDOTP	KRAHN Chemie	General purpose plasticizer for PVC applications with a recycling content from polyester waste. It is used in phthalate free applications and as alternative to hydrogenated DINP.
Sebecates	Cereplas DOS, DIDS	Valtris Specialty Chemicals	They offer outstanding low-temperature properties, making them ideal for extreme cold environments, while maintaining high resistance to migration and volatility for applications requiring flexibility, thermal stability, and durability.
Terephthalates	Cereplas 100XS	Valtris Specialty Chemicals	Standard plasticizer, suitable for sensitive applications with direct food contact as well as in the toy industry and for leisure products.

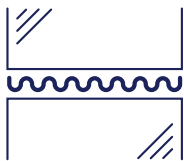
Resins and Hardeners

Product Group	Product Name	Producer	Product Description
Copolymeric extender	Vinnolit C 12 62 V Vinnolit SA 1062 7	Westlake Vinnolit	Enhances the physical properties of PVC formulations by improving impact resistance, flexibility, and chemical resistance. These are often used as additives to modify and optimize the performance of PVC blends in demanding applications.
Copolymeric paste	Vinnolit E 70 SC Vinnolit PA 5470/5	Westlake Vinnolit	Used for plastisol formulations, these products provide high viscosity stability and processability. They are particularly effective in applications requiring intricate designs or precise coatings, ensuring excellent adhesion and surface finish.
Diols	EH Diol	Gulf Chemical International	2-ethylhexanediol-1,3 as chain extender and modifying agent for PU systems.
Epoxy hardeners	ECA 100 NC	Dixie Chemical Company	Blend HHPA/MHPA/MTHPA, epoxy curing agent to form highly cross-linked polymers with excellent physical (UV and alkaline resistance) and electrical properties.
Graft copolymers	Vinnolit K 704 Vinnolit K 707 E Vinnolit VK 710	Westlake Vinnolit	Combines the characteristics of different polymers to enhance compatibility, adhesion, and mechanical strength in specific applications. These copolymers are ideal for complex composite materials or multi-layer systems.
Homopolymeric extender	Vinnolit C 100 V Vinnolit C 65 V Vinnolit EXT	Westlake Vinnolit	Serves as a base for extending the properties of rigid PVC formulations, ensuring consistent performance in terms of durability and rigidity. It is primarily used in applications requiring structural stability.
Homopolymeric paste	Vinnolit E 67 ST, E 68 CF, E 68 CT, E 68 SA, E 69 ST, E 69 VS, E 70 CQ, E 70 TT, E 74 CC, E 75 HV, E 75 SK, E 80 TT, EP 6953 G, M 68 FW, MP 6852, MP 7151, MP 8058, P 4472, P 5078, P 70, P 70 F, P 70 HT, P 70 PS, P 80	Westlake Vinnolit	Provides high-quality dispersion and film-forming properties. Ideal for coating, dipping, or spraying processes where uniformity and surface aesthetics are critical.
Lower carbon PVCs	Vinnolit GreenVin® Vinnolit GreenVin® Bio	Westlake Vinnolit	GreenVin® represents the low-carbon Vinnolit product range, manufactured using renewable energy sourced from hydropower, wind, or solar power. GreenVin® bio-attributed PVC is produced using mass-balanced renewable ethylene. Depending on the PVC grade, GreenVin® PVC offers approximately 25% carbon dioxide savings, while GreenVin® bio-attributed PVC achieves up to 90% savings compared to traditional Vinnolit PVC production.
Photoinitiators	Chemacure	UV Chem-Keys	UV-Photoinitiators to initiate polymer reaction in radiation curing systems.
PVB	Butvar®	Eastman Chemical	Polyvinyl butyral resin suitable for thermoset plastic e.g. composites and laminates to increase mechanical strength, as well as flexibility. Butvar offers reactive hydroxyl sites for crosslinking with thermoset resins as well as a general good solubility and is therefore easy to be formulated into many applications.
Sulfopolyester polymers	Eastek™	Eastman Chemical	Sulfopolyester polymers with excellent performance characteristics (grain rising, clarity, drying speed, etc.) to enhance and improve water-borne systems for industrial applications.

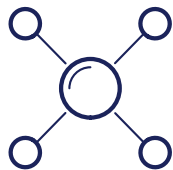
Resins and Hardeners

Product Group	Product Name	Producer	Product Description
Suspension PVC	Vinnolit S 100, S 3160, S 3265, S 3268, S 3368, S 4170, S 80	Westlake Vinnolit	Offers excellent thermal stability and mechanical strength, making it ideal for rigid PVC applications. Its granule form ensures easy processing in extrusion, injection molding, and other high-performance manufacturing processes.
Thermoplastic copolymers	Vinnolit S 3157 11,S 3250 13	Westlake Vinnolit	Delivers superior thermal and mechanical performance by combining different monomers in the polymer chain. These are used in applications requiring a balance of flexibility and durability.
Thermoplastic emulsion PVC	Vinnolit E 2059, E 2169, E 2178	Westlake Vinnolit	Used in applications requiring fine dispersion and excellent film-forming properties. It provides uniform coatings and is often employed in specialty applications like wallpapers or synthetic leathers.

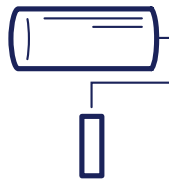
Industries



**Adhesives &
Sealants**



**Chemical
Intermediates**



Coatings



Construction



**Heat Transfer
Fluids**



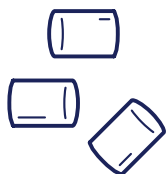
**Industrial Cleaning &
Home Care**



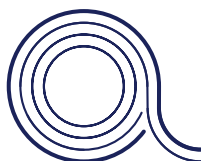
**Lubricants &
Fuels**



**Personal
Care**



Plastics



Rubber

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2. The products sold and/or supplied by us are not destined for the manufacture (i) of medical devices according to EU directive 93/42/EEC, in particular of implants, (ii) of biocides, (iii) of pesticides, (iv) of human and veterinary pharmaceuticals, (v) of food and feed products, (vi) of cosmetics, (vii) of weapons or other objects, designed to take human life or causing injuries.
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**Bring it
together!**



KRAHN Chemie brings
together all the elements
designed to create strong
added value: markets with
innovations, processors with
producers and questions
with answers.

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