BRENNTAG

Product list

Compounds, engineering and high-performance polymers

Polymers Germany

Brenntag Polymers

With extensive market knowledge, application and formulation expertise, we're dedicated to the development and provision of innovative solutions and services for the polymer processing industry, with a special focus on sustainability.

Tailored polymer solutions
We offer you a comprehensive product and service portfolio as well as individual and sustainable polymer solutions thanks to a flexible combination of distribution, compounding, and technical support. Our distribution offering provides you with access to selected, high-quality materials – including engineering and high-performance polymers, biopolymers, additives, dyes, and pigments from the world's leading manufacturers. In addition, you benefit from a wide range of materials developed in-house. In cooperation with established polymer and additive suppliers and our production network, we realize customized, high-performance compounds – optionally also with recyclate content. Our combined expertise results in innovative, efficient, and future-proof materials for demanding applications.

Compounds according to customer demands
Our core competence lies in the development of custom-engineered compounds, which we design precisely to address our customers' demands in close working with them. This results in application-optimized materials with specific property profiles – for example, in terms of mechanics, weight, electrical and thermal conductivity, temperature resistance, friction and wear behavior, or optical properties. These individual solutions are used in complex technical applications, for example, in the fields of mobility, electrical and electronics, and industrial engineering.

Material diversity meets engineering expertise
To target the desired material properties, you can choose from a wide range of different base polymers, additives, and fillers. By intelligently combining these components, we design compounds that are precisely tailored to your technical, functional, and aesthetic requirements. You will benefit from our decades of experience in polymer design, our application expertise, and our solution competence. With a user-centric approach, flexible adaptation to requirements, and short response times, we manufacture materials for metal substitutes, structural and lightweight parts, functionalized compounds (e.g., thermally conductive, magnetically detectable), food-compliant or tribologically optimized, PFAS-free grades.

Sustainable recyclate solutions – resource-efficient, high-performing, and individual
On request, we also integrate industrial secondary raw materials into product development. This results in resource-saving, high-quality recompounds with a recyclate content of up to 100% – without compromising on quality and performance. The materials are modified and upgraded to your specifications, for example, in terms of mechanical properties, coloration, or other parameters – also available as blend solutions. In line with circular value creation, we also support you in establishing individual material cycles to save resources and costs, reduce the carbon footprint, achieve sustainability goals, prevent raw material shortages and supply bottlenecks, and secure your long-term competitiveness.

Future-proof materials
Focus topics such as new mobility, digitalization, and sustainability are addressing completely new requirements for polymers in almost all areas. Brenntag is your innovative, reliable partner in an increasingly volatile polymer market. Thanks to our extensive polymer know-how and our global network, we can provide you with practical, cross-country support – from development to implementation.

Our products

Compounds

Polymer	Product name	Manufacturer	Product description
PA 6 PA 66	ALAMID®	BRENNTAG	▪ Wide range of performance and applications ▪ High toughness and hardness ▪ Very good abrasion resistance ▪ High heat resistance ▪ Good chemical resistance ▪ Broad spectrum of fillers and reinforcing materials
PA 6 PA 66	ALAMID® D	BRENNTAG	▪ Magnetically detectable compounds ▪ Suitable for use in the food industry ▪ Food compliant according to VO 10/2011 (EU) ▪ Enable maximum process reliability ▪ Individual color settings or conductive combinations are possible
PA 6 PA 66	NYLAFORCE®	BRENNTAG	▪ High-performance polyamides with exceptional mechanical values ▪ Very high glass fiber reinforcement ▪ Better processing properties than semi-aromatic polyamides ▪ Very good surface qualities ▪ Slow, low moisture absorption ▪ High dimensional and property stability under changing environmental conditions ▪ For technical functional parts with the highest demands on mechanical strength
PA 6 PA 66	NYLAFORCE® dynamic	BRENNTAG	▪ High-performance polyamides, especially for applications subject to high dynamic loads ▪ Tensile strength of up to 320 MPa ▪ Elongation at break of > 3% ▪ High tensile modulus and thus high dimensional stability ▪ Very high elasticity, excellent elongation ▪ Very good processing properties ▪ Excellent surface quality
On the basis of up to 100% recyclate	Recompounds	BRENNTAG	▪ We upgrade material to your specific demand (e.g., properties, color) ▪ High degree of flexibility, processing of: – customer-owned materials – in-house materials – commercially available materials ▪ Also realizable as blends
On the basis of all polymers in the field of engineering and high-performance thermoplastics	Specialty compounds	BRENNTAG	▪ Development of customized materials: – Definition of requirements – Fixing of specifications for “your material” – Precise implementation of your requirements – Compounds geared exactly to your applications ▪ Also possible as blends (e.g., PMMA/ASA, PMMA/ABS, PC/ASA, PC/ABS, PC/PBT)
PBT PET	TECDUR	BRENNTAG	▪ High heat resistance, stiffness, and hardness ▪ Can be subjected to high dynamic loads ▪ Extremely favorable slip and abrasion behavior ▪ Good chemical resistance ▪ Low tendency to stress cracking and good dimensional stability
PA 6 PA 66 PPS PBT	THERMOFORCE®	BRENNTAG	▪ Thermally conductive compounds ▪ Electrically conductive or electrically insulating ▪ Optimum heat dissipation ▪ Maximum constructive freedom and complex design possibilities ▪ Multi-functional use, significant cost and weight reduction
PA 66 PPS PEEK	TRIBOFORCE®	BRENNTAG	▪ Tribologically optimized, PFAS-free compounds ▪ Ideal gear and plain bearing materials for extreme demands ▪ Exceptional resistance to wear and tear ▪ Low coefficients of friction ▪ Outstanding dimensional stability

Engineering and high-performance polymers

Polymer	Product name	Manufacturer	Product description
Starch-based polymers	NOPLA®	BIO PLAST POM SP. Z O.O.	▪ Biobased and biodegradable ▪ (Home) compostable in just a few weeks, certified (EN 13432, USDA BioPreferred) ▪ For applications affected by the Single Use Plastic directive and others ▪ Free from PLA, PE, PP, and other plastics ▪ Food-safe and heat-resistant
Acrylonitrile Styrene Acrylate	ASA	BRENNTAG	▪ High impact strength and hardness ▪ Excellent weathering and UV resistance ▪ Good chemical resistance ▪ Stable processability ▪ High heat deflection temperature
EVA/LDPE	Ateva®	Celanese	▪ Wide range of custom additives available ▪ 0 – 42% vinyl acetate content ▪ Broad range of melt index ▪ High transparency ▪ High filler loading capacity ▪ Excellent adhesion ▪ Low melting temperature ▪ Hot tack strength ▪ Low seal initiation temperature ▪ Unfilled
PA 12	VESTAMID®	EVONIK Leading Beyond Chemistry	▪ Very low water absorption ▪ Exceptionally high impact strength ▪ High resistance to chemicals ▪ Excellent abrasion resistance ▪ Low coefficient of sliding friction ▪ Excellent fatigue resistance
PA 12-elastomers	VESTAMID®	EVONIK Leading Beyond Chemistry	▪ Good chemical and solvent resistance ▪ Excellent low-temperature impact strength ▪ High elasticity and good recovery behavior ▪ Low temperature dependence of mechanical properties ▪ No volatile or migrating plasticizers
PA 612	VESTAMID®	EVONIK Leading Beyond Chemistry	▪ Low coefficients of sliding friction ▪ Advantages over PA 12: – Higher heat deflection temperature – Better tensile and flexural strength – Excellent rebound elasticity
Biopolyamide 610, 1010, 1012	VESTAMID® Terra	EVONIK Leading Beyond Chemistry	▪ Based on renewable raw materials ▪ Favorable CO_2 balance ▪ High-performance thermoplastics ▪ Can compete with established polyamides
PA 12 (USP Class VI) PA PACM 12 (USP Class VI)	VESTAMID® Care TROGAMID® Care	EVONIK Leading Beyond Chemistry	▪ High bursting strength and high toughness ▪ Outstanding chemical resistance ▪ Good mechanical properties ▪ Non-toxic ▪ Resistance to body fluids
PA PACM 12 (transparent)	TROGAMID®	EVONIK Leading Beyond Chemistry	▪ Glass-clear, high transparency ▪ High mechanical strength ▪ High heat resistance and toughness ▪ Good chemical resistance ▪ Low shrinkage on processing
PBT	VESTODUR®	EVONIK Leading Beyond Chemistry	▪ Low water absorption, therefore exact shape retention ▪ High strength and hardness ▪ Good sliding friction behavior, low abrasion ▪ Good electrical properties ▪ No tendency to stress fractures
Copolyamide-melt adhesive	VESTAMELT®	EVONIK Leading Beyond Chemistry	▪ Economical, gentle on fabrics, and also for difficult-to-bond surfaces ▪ Good resistance when washing and dry-cleaning ▪ Steam and solvent resistant

Our products

Engineering and high-performance polymers

Polymer	Product name	Manufacturer	Product description
PC	TARFLON™	idemitsu	▪ Outstanding impact resistance and impact strength ▪ High transparency, suitable for optical applications ▪ Excellent dimensional accuracy and stability, low molding shrinkage, allows precise molded parts ▪ Heat-resistant, can be used under a wide range of temperature conditions (-40°C to +120°C) ▪ Self-extinguishing, general grade with no added flame retardants demonstrating flame retardancy under the same test conditions as the UL94 V-2 standard ▪ Excellent electrical properties such as dielectric breakdown voltage
On the basis of renewable and/or recycled raw materials	NAFILean™ IniCycled IniFlex	MATERIACT	▪ Integration of biomass such as hemp or pineapple fibers as well as recycled thermoplastics ▪ Up to 85% CO_2 reduction compared to conventional materials ▪ Optimized processability ▪ Weight reduction ▪ Recyclable ▪ For applications in the automotive sector, building & construction, the furniture industry, and many more
TPV (PP+EPDM)	Alfater XL®	MOCOM	▪ Hardness ranges from Shore A40 to D50 ▪ Available in black, natural, and colored ▪ Good processing via blow molding, extrusion, and injection molding ▪ Good colorability ▪ Low density (< 1.0 g/cm³) ▪ Good mechanical properties ▪ Broad service temperature (-40°C up to +130°C) ▪ Low tension set and compression set ▪ Good heat aging resistance (long-term up to +130°C) ▪ Very good resistance to weathering, moisture, UV, and ozone ▪ Good resistance to many aqueous solutions, acids, and alkaline mediums ▪ Good adhesion to polyolefins, TPV, and polyamides (acc. to VDI 2019) ▪ Good grip and anti-slip properties ▪ Grades for food contact
Sustainable TPV	Alfater XL® ECO	MOCOM	▪ Recyclates with high purity and quality (post-industrial) ▪ Use of bio-based raw materials with constant quality ▪ Low density (< 1.0 g/cm³) ▪ Broad service temperature range (-40°C up to +130°C) ▪ Excellent bonding to polyolefins & TPV (acc. to VDI 2019) ▪ Good grip & anti-slip properties ▪ Very good compression set ▪ Available in different Shore hardnesses (soft to hard) ▪ Processing on conventional machines
SBS SEBS SEPS	Novaprene®	Novaco GmbH	▪ Outstanding rubber-like properties ▪ Materials in hardnesses from Shore A 10° to Shore D 60° ▪ Excellent elongation at break and tear strength ▪ Very good tactile and optical properties ▪ Virtually no intrinsic odor

Engineering and high-performance polymers

Polymer	Product name	Manufacturer	Product description
PMMA glass-clear and colored	PLEXIGLAS®	RÖHM	▪ Maximum light transmission (92%) ▪ Very good UV resistance ▪ High surface hardness ▪ Types with excellent impact strength ▪ Types with very good light scattering effect
PMMA with shares of mechanically recycled PMMA and ISCC PLUS-certified raw materials	PLEXIGLAS® *pro*Terra	RÖHM	▪ Lower carbon footprint ▪ PLEXIGLAS® *pro*Terra M5: – Contains up to 30% recycled PMMA – Product properties are largely comparable to PLEXIGLAS® 8N, although not completely identical due to the recycled material content ▪ PLEXIGLAS® *pro*Terra 8N: – Made from ISCC PLUS-certified raw materials – The product is chemically identical to PLEXIGLAS® 8N and has congruent product properties
PMMI	PLEXIMID®	RÖHM	▪ High heat deflection temperature under load ▪ Excellent transmission and clarity ▪ Very high strength and rigidity ▪ Good weather resistance ▪ Particularly suitable for injection molding of items meant for applications that involve high heat loads ▪ Examples: Automotive lighting, light guides, lenses, fiber optics, luminaire covers, sight glasses, cover lenses
Polyoxymethylene copolymer	SABIC® POM	سابك sabic	▪ High strength and stiffness ▪ Superior chemical resistance ▪ Low friction coefficient (self-lubricating) ▪ Excellent wear properties ▪ Good dimensional stability and ease of machining

Brenntag Polymers in brief

- Innovative development partner for your projects
- Decades of polymer experience
- Certified to ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018
- Wide range of materials developed in-house
- Cooperation with other, well-known global market leaders
- Flexible demand adjustment
- Fast reaction times
- Networked in regional and global markets
- Cross-industry solutions

Focus areas

- Individual material solutions
- Compound development
- High-reinforced compounds
- Metal substitutes
- Lightweight
- Thermal conductivity
- Magnetic detectability
- Food conformity
- Tribologically optimized compounds
- Recompounds

Compounds core portfolio

- ALAMID®
- ALAMID® D
- NYLAFORCE®
- NYLAFORCE® dynamic
- TECDUR
- THERMOFORCE®
- TRIBOFORCE®

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