



# Product List

High-performance Polymers and  
Engineering Thermoplastics

Germany

# Brenntag Polymers

## **Customized 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. In addition to a distribution offering of selected, high-quality products from the world's leading manufacturers, a wide range of products from our own innovative development work is available to you. The Brenntag Compounding Facility at the Ramstein site (Germany) specializes in the development, production and marketing of compounds made from high-performance polymers and engineering thermoplastics and provides you with differentiated and comprehensive support in implementing individualized applications.

## **Compounds according to customer demands**

The key competencies are specialty compounds that are developed in close cooperation with our customers to address their specific demands. This results in highly individual materials with specific property profiles in terms of mechanics, weight, conductivity, resistance, wear and friction, optics etc. for complex technical applications, for example in the fields of Mobility, E&E or Industrial Engineering etc. For modification and adjustment

of desired properties, you can choose from a wide range of different base polymers and additive / filler combinations. You also benefit from our decades of experience in thermoplastics design, application expertise and solutions competence.









With a user-centric approach, flexible adaptation to requirements and fast response times, materials for metal substitutes, functionalized compounds (e.g. thermally conductive, detectable), food-grades or tribologically optimized grades are developed and produced at the Ramstein plant on our own production lines. At the customer's request and on an application-specific basis, we also integrate sorted secondary raw materials (recyclates) into product development, on the basis of which resource-saving, high-quality recomponds are created.

## **Sustainable material solutions**







Focus topics such as New Mobility, Digitalization and Sustainability are addressing completely new requirements for thermoplastics in almost all areas. Brenntag is your innovative partner in an increasingly volatile market for polymers. Thanks to our extensive thermoplastics know-how and our global network, we can provide you with practical, cross-country support.



# Our Products






Polymer	Product Name	Manufacturer	Product Description
PA	ALAMID®	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ High toughness and hardness</li> <li>▪ Very good abrasion resistance</li> <li>▪ High heat resistance</li> <li>▪ Good chemical resistance</li> <li>▪ Wide spectrum of fillers and reinforcing materials</li> </ul>
PA	ALAMID® D	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ Magnetically detectable compounds</li> <li>▪ Suitable for use in the food industry</li> <li>▪ Food compliant according to VO 10/2011 (EU)</li> <li>▪ Enable maximum process reliability</li> <li>▪ Individual color settings or conductive combinations possible</li> </ul>
PA 6 PA 66	NYLAFORCE®	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ High-performance polyamides with exceptional mechanical values</li> <li>▪ Very high glass fiber reinforcement</li> <li>▪ Better processing properties than semi-aromatic polyamides</li> <li>▪ Very good surface qualities</li> <li>▪ Slow, low moisture absorption</li> <li>▪ High dimensional and property stability under changing environmental conditions</li> <li>▪ For technical functional parts with the highest demands on mechanical strength</li> </ul>
PA 6 PA 66	NYLAFORCE® dynamic	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ High-performance polyamides, especially for applications subject to high dynamic loads</li> <li>▪ Tensile strength of up to 320 MPa</li> <li>▪ Elongation at break of &gt; 3 %</li> <li>▪ High tensile modulus and thus high dimensional stability</li> <li>▪ Very high elasticity, excellent elongation</li> <li>▪ Very good processing properties, excellent surface quality</li> </ul>
All polymers in the field of high-performance and engineering thermoplastics	Specialty compounds	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ Development and production of customized materials:               <ul style="list-style-type: none"> <li>– Definition of requirements profile</li> <li>– Fixing of specifications for “your” material</li> <li>– Precise implementation of your requirements</li> <li>– Compounds geared exactly to your applications</li> <li>– Recompounds based on recyclates possible</li> </ul> </li> </ul>
PBT PET	TECDUR	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ High heat resistance, stiffness and hardness</li> <li>▪ Can be subjected to high dynamic loads</li> <li>▪ Extremely favorable slip and abrasion behavior</li> <li>▪ Good chemical resistance</li> <li>▪ Low tendency to stress cracking and good dimensional stability</li> </ul>
PA 6 PA 66 PPS PBT	THERMOFORCE®	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ Thermally conductive compounds</li> <li>▪ Electrically conductive or electrically insulating</li> <li>▪ Optimum heat dissipation</li> <li>▪ Maximum design freedom and complex design possibilities</li> <li>▪ Multi-functional use, significant cost and weight reduction</li> </ul>
PA 66 PPS PEEK	TRIBOFORCE®	 BRENNTAG	<ul style="list-style-type: none"> <li>▪ Tribologically optimized compounds</li> <li>▪ Ideal sliding/slipping/bearing products for extreme demands</li> <li>▪ Exceptional resistance to wear and tear</li> <li>▪ Low coefficients of friction</li> <li>▪ Outstanding dimensional stability</li> </ul>

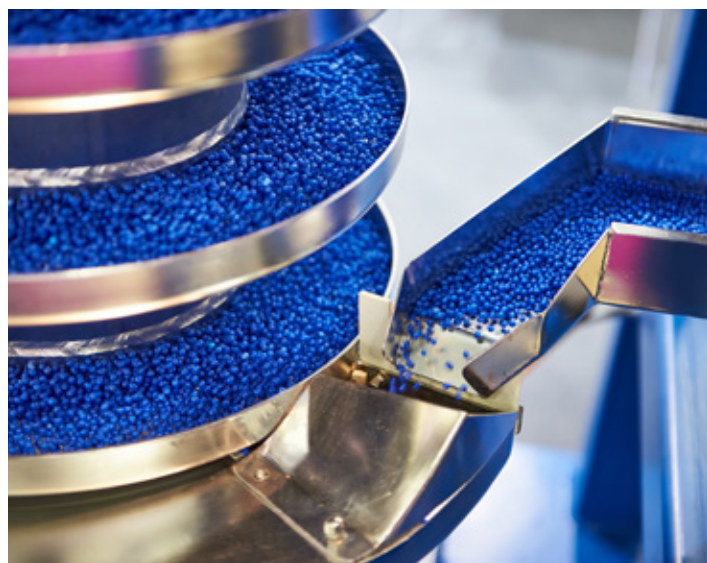
# Our Products

Polymer	Product Name	Manufacturer	Product Description
PA 12	VESTAMID®	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Very low water absorption</li> <li>▪ Exceptionally high impact strength</li> <li>▪ High resistance to chemicals</li> <li>▪ Excellent abrasion resistance</li> <li>▪ Low coefficient of sliding friction</li> <li>▪ Excellent fatigue resistance</li> </ul>
PA 12-Elastomers	VESTAMID®	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Good chemical and solvent resistance</li> <li>▪ Excellent low-temperature impact strength</li> <li>▪ High elasticity and good resilience</li> <li>▪ Low temperature dependence of the mechanical properties</li> <li>▪ No volatile or migrating plasticizers</li> </ul>
PA 612	VESTAMID®	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Low coefficients of sliding friction</li> <li>▪ Advantages over PA 12:               <ul style="list-style-type: none"> <li>- higher heat deflection temperature</li> <li>- better tensile and flexural strength</li> <li>- excellent rebound resilience</li> </ul> </li> </ul>
Biopolyamide 610, 1010, 1012	VESTAMID® TERRA	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Based on renewable raw materials</li> <li>▪ Favorable CO<sub>2</sub> balance</li> <li>▪ High-performance thermoplastics</li> <li>▪ Can compete with established polyamides</li> </ul>
PA 12 (USP Class VI) PA PACM 12 (USP Class VI)	VESTAMID® Care TROGAMID® Care	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ High bursting strength and high toughness</li> <li>▪ Outstanding chemical resistance</li> <li>▪ Good mechanical properties</li> <li>▪ Non-toxic</li> <li>▪ Resistance to body fluids</li> </ul>
PA PACM 12 (transparent)	TROGAMID®	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Glass-clear, high transparency</li> <li>▪ High mechanical strength</li> <li>▪ High heat resistance and toughness</li> <li>▪ Good chemical resistance</li> <li>▪ Low shrinkage on processing</li> </ul>



# Our Products

Polymer	Product Name	Manufacturer	Product Description
PBT	VESTODUR®	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Low water absorption, therefore exact shape retention</li> <li>▪ High strength and hardness</li> <li>▪ Good sliding friction behavior, low abrasion</li> <li>▪ Good electrical properties</li> <li>▪ No tendency to stress fractures</li> </ul>
Copolyamide melt adhesive	VESTAMELT®	 <b>EVONIK</b> Leading Beyond Chemistry	<ul style="list-style-type: none"> <li>▪ Economical, gentle on fabrics, also with difficult-to-bond surfaces</li> <li>▪ Good resistance when washing and dry-cleaning</li> <li>▪ Steam and solvent-resistant</li> </ul>
PMMA glass-clear and colored	PLEXIGLAS®	 <b>RÖHM</b>	<ul style="list-style-type: none"> <li>▪ Maximum light transmission (92%)</li> <li>▪ Very good UV resistance</li> <li>▪ High surface hardness</li> <li>▪ Types with excellent impact strength</li> <li>▪ Types with very good light scattering effect</li> </ul>
SBS SEBS SEPS	Novaprene®	 <b>Novaco</b> GmbH	<ul style="list-style-type: none"> <li>▪ Outstanding rubber-like properties</li> <li>▪ Materials in hardnesses from Shore A 10° to Shore D 60°</li> <li>▪ Excellent elongation at break and tear strength</li> <li>▪ Very good tactile and optical properties</li> <li>▪ Virtually no intrinsic odor</li> </ul>
Polyoxymethylene Copolymer	SABIC® POM	 <b>سابك</b> <b>sabic</b>	<ul style="list-style-type: none"> <li>▪ High strength and stiffness</li> <li>▪ Superior chemical resistance</li> <li>▪ Low friction coefficient (self lubricating)</li> <li>▪ Excellent wear properties</li> <li>▪ Good dimensional stability and ease of machining</li> </ul>



# Brenntag Polymers in brief

- Innovative development partner for your projects
- Decades of compounding experience
- Certified to ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018
- More than 700 products from our own development work
- State-of-the-art compounding facilities
- 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
- Detectability
- Food conformity
- Tribologically optimized compounds
- Recompounds

## Contact

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