

Connecting**Chemistry**



**HIGH-PERFORMANCE  
POLYMERS AND  
ENGINEERING  
PLASTICS  
GERMANY**

Products supplied

[www.brenntag.de](http://www.brenntag.de)

# About Brenntag

Brenntag GmbH is the German subsidiary of the Brenntag Group, the global market leader in chemical distribution. As the link between chemicals producers and industrial users, Brenntag provides distribution solutions for industrial and specialty chemicals.

## **Brenntag Polymers**

The team at Brenntag Polymers is unrivaled in the thermoplastics industry for its dedication and expertise, and our team fully leverages its passion and technical know-how of polymers to benefit of our customers.

### **Our plastics expertise – More than distribution**

Brenntag has acquired LEIS Polytechnik polymere Werkstoffe GmbH, based in Ramstein, Germany. With the merger at the beginning of 2017, a joint performance and product portfolio was established. This gives our customers more than 700 products for a wide variety of applications in many different industries such as automotive industry, E & E, LED technology, the medical sector, machinery and plant engineering, etc.










### **Your benefit: Our combined know-how**

Alongside our range of leading brands, customers now benefit from our bundled know-how in creating customized material solutions, production and marketing of compounds from engineering thermoplastics and high-performance polymers.







We offer our customers extensive support along the entire process chain – from product development and selection via application-related consulting up to market maturity. Brenntag combines the benefits of local and regional market presence with the network of a globally operating company. This enables us to deal with your needs quickly, and guarantee you the best logistical and technical support.



# Our Products







POLYMER	TRADENAME	MANUFACTURER	PRODUCT DESCRIPTION
PA	<b>ALAMID®</b>		<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 6 PA 66	<b>ALAMID® D</b>		<ul style="list-style-type: none"> <li>■ Magnetically detectable compounds</li> <li>■ Suitable for use in the food industry</li> <li>■ Conformity to regulation 10/2011 (EU), FDA 21 CFR</li> <li>■ Enable maximum process reliability</li> <li>■ Individual color settings or conductive combinations possible</li> </ul>
PA 66	<b>AQUAFORCE®</b>		<ul style="list-style-type: none"> <li>■ Metal substitute</li> <li>■ Compounds specifically for use in drinking water segment</li> <li>■ Excellent mechanical properties</li> <li>■ Glass fiber reinforcements from 30% to 60%</li> <li>■ Very good thermoplastic processability</li> </ul>
All polymers in the field of engineering plastics and high- performance plastics	<b>LEIS</b>   Spezialcompounds		<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> </ul> </li> </ul>
PA 6 PA 66	<b>NYLAFORCE®</b>		<ul style="list-style-type: none"> <li>■ Metal substitute</li> <li>■ High glass reinforcement (up to 70%) in the feed-up process (enables extremely careful incorporation of the glass fibers)</li> <li>■ Better processing properties than partially aromatic polyamides</li> <li>■ No PA 6 / PA 66 on the market with comparable mechanical values</li> </ul>
PA 6 PA 66	<b>NYLAFORCE® dynamic</b>		<ul style="list-style-type: none"> <li>■ Metal substitute</li> <li>■ Specifically for applications subjected to high dynamic load</li> <li>■ Tensile strength of up to 320 MPa</li> <li>■ High elasticity modulus and thus high dimensional stability</li> <li>■ Very high elasticity, outstanding elongation</li> </ul>
PBT PET	<b>TECDUR</b>		<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	<b>THERMO FORCE®</b>		<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	<b>TRIBO FORCE®</b>		<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	TRADENAME	MANUFACTURER	PRODUCT DESCRIPTION
PA 12	VESTAMID®	 <b>EVONIK</b> POWER TO CREATE	<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> POWER TO CREATE	<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> POWER TO CREATE	<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>
PPA	VESTAMID® HTplus	 <b>EVONIK</b> POWER TO CREATE	<ul style="list-style-type: none"> <li>■ Very high stiffness and hardness</li> <li>■ Good dimensional stability</li> <li>■ High temperature resistance</li> <li>■ High resistance to chemicals</li> <li>■ Materials for metal substitution</li> </ul>
Biopolyamide 610, 1010, 1012	VESTAMID® Terra	 <b>EVONIK</b> POWER TO CREATE	<ul style="list-style-type: none"> <li>■ Based on renewable raw materials</li> <li>■ Favorable CO<sub>2</sub> balance</li> <li>■ High-performance plastics</li> <li>■ Can compete with established polyamides</li> </ul>
PA 12 (USP Class VI) PA 6-3-T (USP Class VI) PA PACM 12 (USP Class VI)	VESTAMID® Care TROGAMID® Care	 <b>EVONIK</b> POWER TO CREATE	<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>



# Our Products

POLYMER	TRADENAME	MANUFACTURER	PRODUCT DESCRIPTION
PA 6-3-T (transparent) PA PACM 12 (transparent)	TROGAMID®	 <b>EVONIK</b> POWER TO CREATE	<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>
PBT	VESTODUR®	 <b>EVONIK</b> POWER TO CREATE	<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> POWER TO CREATE	<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>EVONIK</b> POWER TO CREATE	<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>
MBS	CYROLITE®	 <b>EVONIK</b> POWER TO CREATE	<ul style="list-style-type: none"> <li>■ High transparency</li> <li>■ High impact strength even at low temperatures</li> <li>■ Resistant to EtO gas and gamma rays</li> <li>■ High chemical resistance</li> <li>■ Easy to bond, also with PVC</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>



# Brenntag plastics in brief

- Innovative development partner for your projects
- Decades of compounding experience
- Certified to ISO 9001:2008 and ISO 14001:2004
- More than 700 products from our own development work
- Own production processes (feed-up process)
- 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

## Core competencies

- Metal Substitution
- Thermally conductive Compounds
- Compounds for the Food Industry
- Detectable Compounds
- Tribologically optimized Compounds
- Drinking Water Compounds



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