AS VERSATILE AS THE REQUIREMENTS OF OUR CUSTOMERS

OUR FIBERS AND THEIR PROPERTIES

OUR SYNTHETIC FIBERS:

Description	Properties	Application	Temperature* (continuous)
STANDARD FIBERS:			
PP POLYPROPYLENE semi-crystalline thermoplastic	» high dynamic load capacity » multitude of possible applications » chemically very resistant, low water and vapor permeability, good insulation parameters » high air permeability » easy to process » low weather and UV-resistance » no moisture absorption	» clothing » flooring » automotive » battery-seperators	90°C
PES POLYESTER / RECYCLED PES Polymer with ester linkage	» enormously hard-wearing » highest abrasion and tear resistance » processing into thermoplastics, elastomers » very dimensionally stable » high strength, rigidity and hardness » very low moisture absorption » low sliding friction and sliding wear » good chemical resistance to acids » easy to bond and weld » recyclability (e.g. fibers from bottles)	» automotive » acoustic insulation » 3D-molded parts » abrasives » seals » filtration	150°C
PA POLYAMIDE thermoplastic material linear polymers with amide bonds	» technically significant » high strength » good chemical resistance » tear and abrasion resistant » low moisture absorption	» clothing » flooring » automotive » abrasives » seals	100°C
SPECIAL FIBERS:			
PRE-OXIDIZED PAN oxidized acrylic fiber	» non-flammable » not melting » not softening » not dripping » high LOI value » high temperature resistance	» flame retardant and insulating materials for refractory industry and brake pads in aircraft construction	200°C – 250°C

SPECIAL FIBERS:

CARBON FIBER by carbonization (heat treatment > 3.000 °C with the exclusion of oxygen) manufactured fibers from viscose or PAN	» extreme strength » high electrical conductivity » low specific weight	» automotive engineering » wind power » aircraft construction » all applications that require high strength at low weight	up to 2.000 °C
META-ARAMID high temperature resistant synthetic fiber	» incombustible (chars with light shrink) » decomposition temperature approx. 370°C	» protective clothing » decorative fabrics » floor coverings » hot gas filtration » technical textiles	180°C
PARA-ARAMID high strength and high temperature resistant synthetic fiber	» decomposition temperature approx. 500°C » non-flammable » very good mechanical characteristics » very good contact heat resistance	» friction linings » seals » protective clothing » cut and ballistic protection » replacement of steel in prestressed concrete	180°C
POLYTETRAFLUORETHYLENE (PTFE) manufactured in a special spinning process fiber	» basically insoluble » melting only with decomposition » 0% moisture absorption » incombustible » only melts at 340°C » very high chemical resistance » good electrical insulation » non-stick property » low stainability	» electrical insulation » filtration » protective suits » technical textiles	260°C
“SILVER FIBER” PA-fiber with silver vaporized on the surface	» high electrical conductivity » antibacterial effect	» protection against electro-smog » mouth and nose masks » clothing » functional textiles	100°C
POLYIMIDE technical special fiber	» low moisture absorption » insoluble in solvents » high chemical resistance » briefly exposed to temperatures of up to 400°C » infusible » flame retardant » high thermal stability	» protective clothing » hot gas filtration » seals » special technical textiles	220°C

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* The technical data refers to a dry application environment, are determined according to the standards and apply within the usual tolerances. No liabilities can be derived from this. The suitability of the product for the respective application must be checked before processing or use.

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