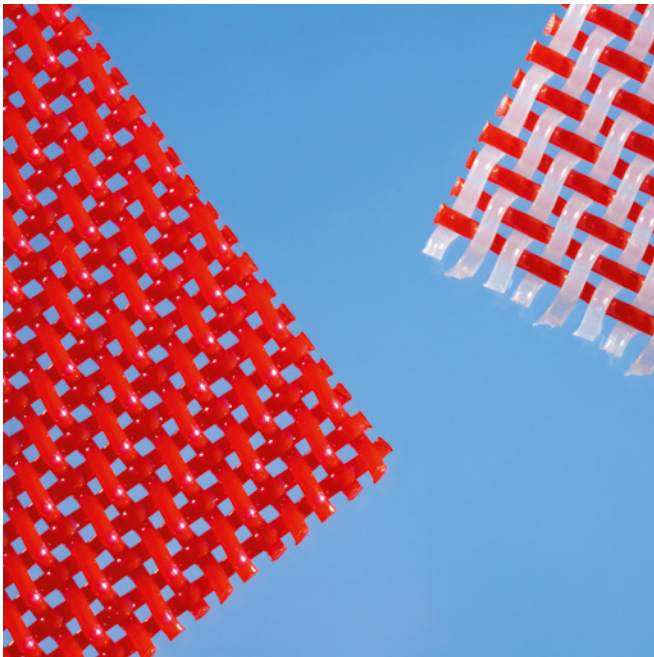


PP (hs) monofilament



Nothing wears out PP (hs)

Polypropylene is a semi crystalline, inert nonpolar raw material which is resistant to numerous solvents. Its resistance to non-oxidising acids and alkalis makes PP especially attractive for applications in the filtration industry.

Due to their low temperature stability, the use of monofilaments made from non-stabilised polypropylene is limited. Monofilaments manufactured by Perlon[®] are very different: They are heat stabilised and can be used in a variety of demanding temperature resistant end products. Thus PP (hs) monofilaments are well suited as a substitute for PVDF monofilaments.

Heat stabilised polypropylene monofilaments are approved for applications in the food industry (FDA).

Perlon[®] – The Filament Company

Perlon[®] – The Filament Company – is an innovative, global group of companies specialized in the manufacture of synthetic filaments. Perlon[®] generates annual sales of about 135 million euros, employs more than 850 people and has a production capacity of over 20,000 tons. We operate from locations in Germany, in the USA and in China.

Through our technical expertise and strength in innovation we develop premium quality products for our customers. The comprehensive product portfolio is based on a variety of raw materials. In line with the intended application, these are modified and processed into high quality, application-specific filaments. The consistent high quality of our products sets worldwide benchmarks.

The advantages at a glance:

- High chemical resistance
- Resistance to alkalis and acids
- Very low water absorption
- Low electrostatic charging
- Very low thermal conductivity
- Self-extinguishing
- Insulating
- Can be supplied spun dyed
- Approved for food contact

Physical properties

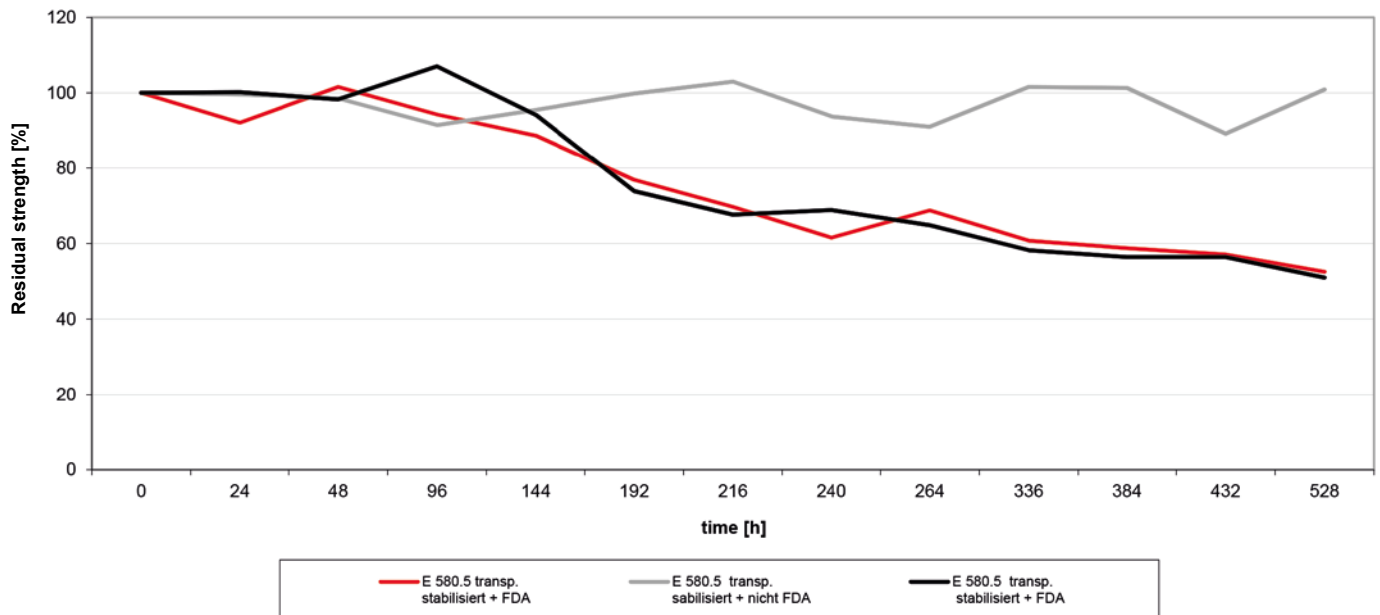
Physical parameters	Unit	Range
Density	g/cm ³	0.90
Continuous temperature resistance	°C	110
Melting temperature	°C	160 – 170
Glass transition point	°C	0
Ignition temperature	°C	approx. 350
Acid index (LOI)	%	17 – 18
Decomposition temperature	°C	> 300

Technical specifications

Technical parameters*	Unit	Value
Diameter	mm	0.16
Titre	Decitex	185
Strength	cN/tex	> 44
Elongation at break	%	35
Testrite shrink 120 °C 3 min (2 g)	%	6

*Based on product type E 580.5 hs 0.16 mm natural

heat ageing of PP 140°C



Industries & applications

Filtration	Filter fabric
Consumer	Velcro fasteners
Industry	Conveyor belts

Brand related products: 8**Y, E**

This product information has been compiled to the best of our knowledge and with the greatest of care. We cannot, however, assume any liability for the accuracy, integrity or timeliness of its content. The technical parameters and the behaviour of the monofilament can vary depending on diameter and production technique.