

ElasTer[®]



ElasTer[®]: Fantastically elastic – almost like rubber

TPE-E-based monofilaments have impressive rubber-like advantages. Good dynamic and mechanical properties allow versatile applications in the field of textiles, e.g. in the furniture or textile industry, as well as in technical applications such as automotive or filtration. The structure of the copolymer is characterised by polyester-based hard segments and polyether-based soft segments. The ratio of hard to soft segments has a decisive influence on the elastic behaviour of the monofilament.

Perlon[®] produces elastic monofilaments in various hardness grades to Shore D* (35-77). Our range covers round diameters as well as various profiles from natural colours to spun dyed. Our portfolio also contains products with special properties such as flame retardant or antibacterial finishing.

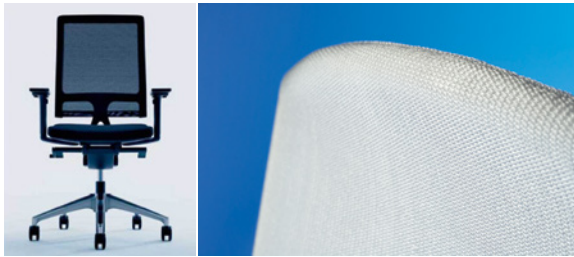
Perlon[®] – The Filament Company

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.

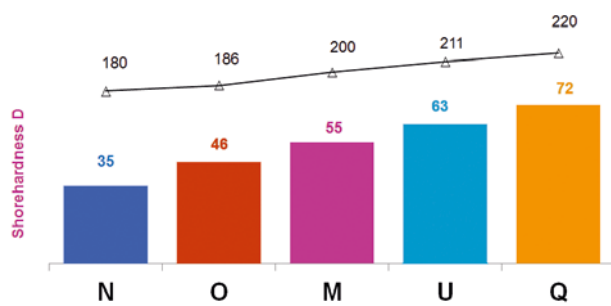
Outstanding product characteristics

- Over 10 years of ElasTer[®] product experience
- Very good impact absorption
- Very good recovery characteristic after stressing
- Chemical resistance to fats, oils, detergents and fuels
- Good ageing resistance compared with rubber
- Additives for improved UV stability
- Bicomponent types in combination with other polymers possible
- Silicon-free preparation
- Very high shrinkage force
- Retention of its mechanical properties at temperatures between -40 and 120 °C

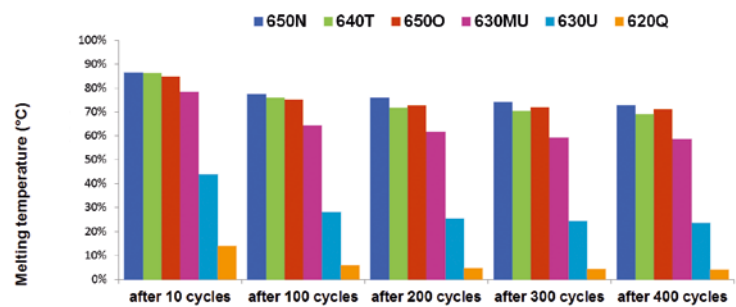


Furniture industry	Backrests
Filtration sector	Self-cleaning filters
Automobile sector	Interior fittings
Textile industry	Household textiles, spacer fabrics

Technical data

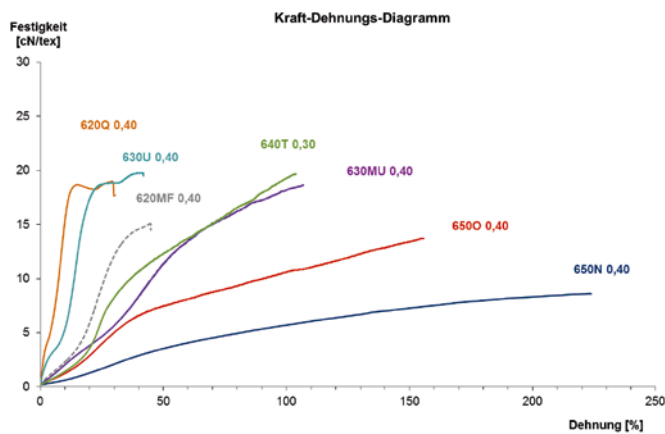


ElastTer grading



Elastic recovery

Mechanical properties



*The hardness of rubber mixtures is measured by means of the Shore D durometer: the higher the durometer hardness, the harder is the compound. Softer compounds stretch more easily while harder compounds offer better abrasion resistance.

Brand related products: 6** M, MF, MT, MU, N, Q, QU, U / 7** NQ

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.