POLYETHYLENE FIBERS
UHMw/HMPE

General Description: An extended chain, high strength, lightweight polyethylene fiber with one of the highest strength-to-weight ratios of any man-made fiber.

Standard Filament Sizes: 2.2 denier per filament (dpf)

Standard Cut Lengths: 1/4", 1/2", 3/4", and 1" (6mm, 13mm, 19mm, and 26mm)
Other lengths available upon request.

Shrinkage, Boiling Water: <1.0%

Breaking Tenacity: ~36 g/den
Elongation: <4.0%
Modulus: 1200 g/den

Initial Moisture Content: <3.0%

Average Moisture Regain of Polyethylene: <1.0%
Specific Gravity: 0.97 g/cm³

Effect of Heat: Melts at 135-145°C / 275-293°F. Decomposes at >300°C / 572°F.


Dispersion: Easily dispersed in aqueous and non-aqueous systems. Surface treatment to aid dispersion applied as required.

Packaging: Fiber is packaged in corrugated boxes with polyethylene liners. Custom packaging available upon request.

The above information is provided to describe typical values and does not constitute a product specification.