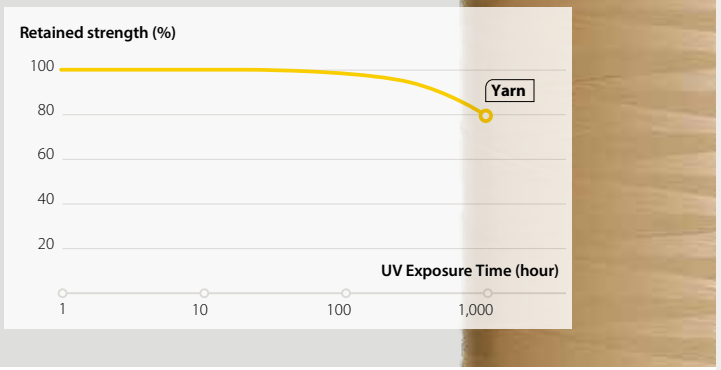
UV-resistance of mooring lines

Aramid ropes offer superior UV-resistance to conventional synthetic mooring lines, because aramid fiber effectively absorbs UV-light. Because of this, UV light only affects single yarn fibers on the surface of the rope and will not have a significant negative impact on rope performance in case of large diameters.

Twaron® fiber

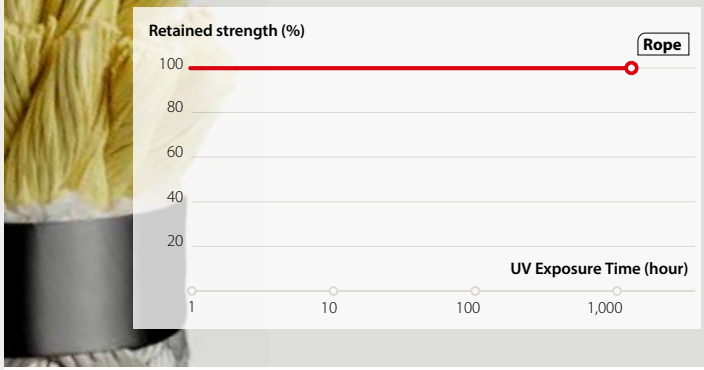
UV light affects aramid single fiber strength after prolonged exposure



Twaron® single fiber yarn (type 1000 3360 dtex) exposed to UV light (350 nm) at 0.9 W/m².

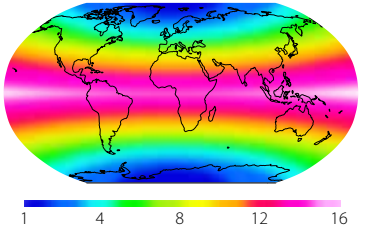
Twaron® rope (10mm diameter) made out of Twaron® fiber

UV light does not affect aramid rope strength after prolonged exposure



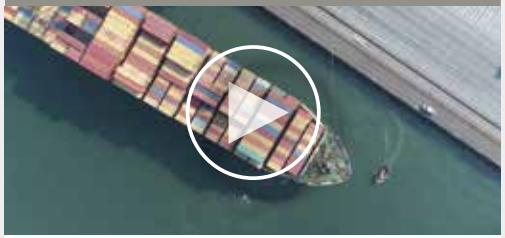
Twaron® braided rope (made out of Twaron® fiber, type 1000 3360 dtex) exposed to UV light (350 nm) at 0.9 W/m².

UV index world map



Copyright: ESA. Global clear-sky UV index 26 March 2001. The UV index is the effective UV-B irradiance (divided by 25 mW/m2) reaching the Earth's surface. This UV index is valid for clear-sky conditions and will usually be lower for cloudy skies.

The myths unraveled



*What are the common misconceptions regarding the use of aramid in mooring lines? Check out the **video**.*

The benefits of Twaron® & Technora® in mooring lines:

- Low weight
- Reliable in every climate
- Safe mooring solution
- Recyclable

For more information:

Please email us at ropescables@teijinaramid.com or visit www.teijinaramid.com/mooring-lines

Twaron® Technora®

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