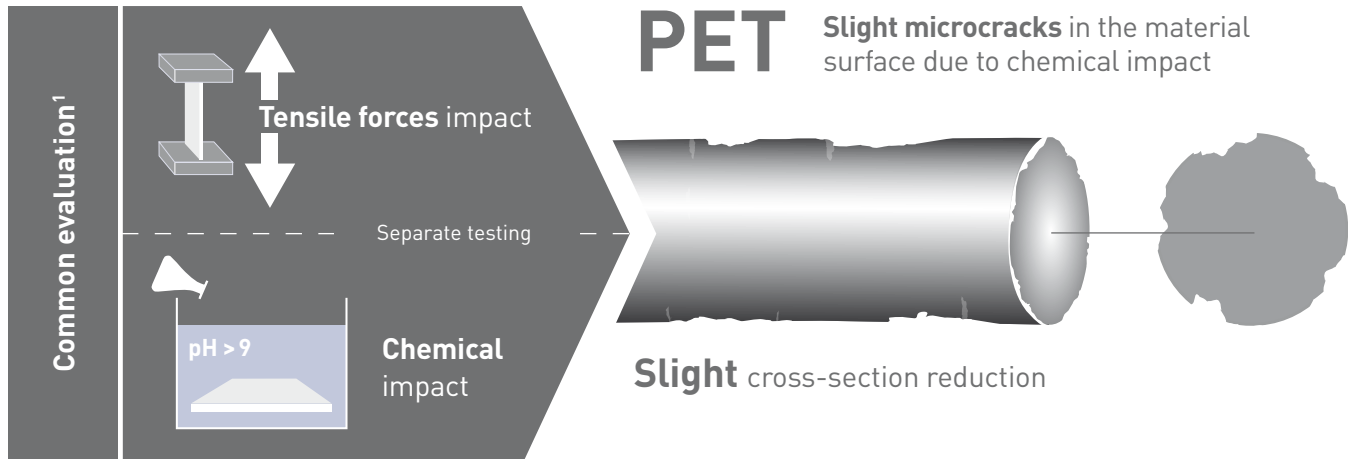


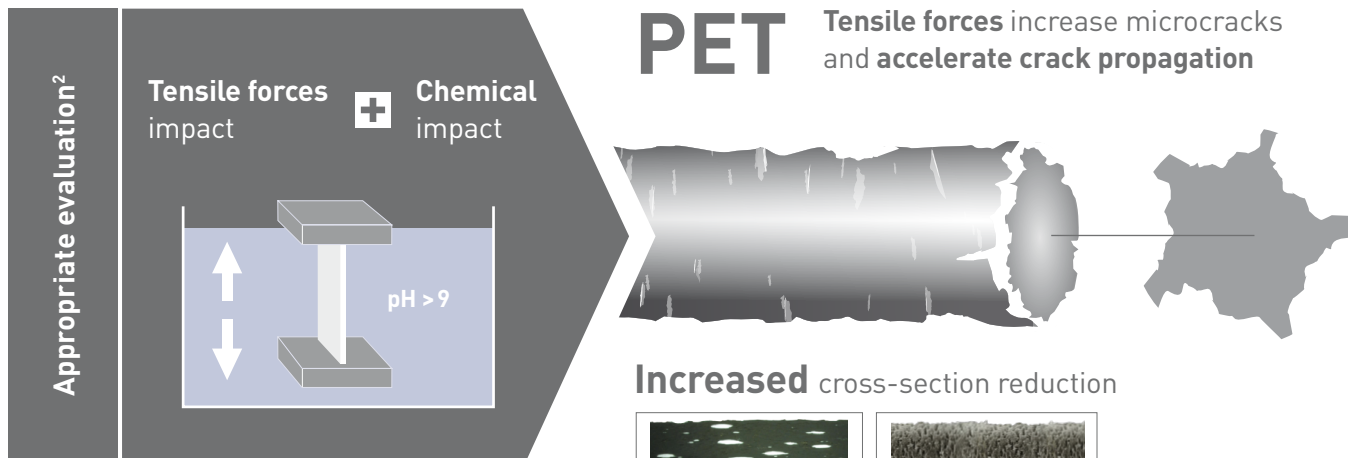
Be careful when choosing raw material!

Geosynthetic Reinforcements in high alkaline conditions



Test results:

120 years
projected durability



1000-times
shorter durability

3 weeks
real durability

Test conditions pH = 12.6 (Saturated Calcium Hydroxyde) at 40 °C under load

Therefore our recommendation: **PVA***

*Reliable long-term reinforcement: no surface damage due to hydrolysis, cross-section reduction.

¹Typically the projected durability, with respect to chemical degradation, is determined without tensile stresses.

²The determination of the projected durability under chemical impact with simultaneous tensile stresses reduces the durability significantly in comparison to the determination without tensile stresses. See: [1] Müller, W. Alterung von Bewehrungsgittern aus Polyester. Geotechnik. Nr. 6, 2013, S. 359-366 and [2] Müller-Rochholz, J. Bronstein, Z. (1994). Einfluss von Zugbeanspruchung auf das Hydrolyseverhalten von Polyester (PET). Schlussbericht 1.94.

³Surface erosion and cross section reduction of PET strand and PET fibre. See [2] and [3] Greenwood, J., Schröder, H., Voskamp, W. (2015). Durability of Geosynthetics (2nd Edition). Delft: SBRCURnet.