

DATASHEET

120x60 Construction

Product Description

RETEXTIL is a textile composite material made from a combination of used textiles and plastic waste, where the textile fibers act as reinforcement within the profile structure. This makes it much stronger than standard plastic profiles, a functional alternative to wood, splinter-free, and suitable for construction and support functions. The profile can be processed with brushed surfaces for slip resistance to R11 level.

Raw material:

- 60% Textile waste
- 40% Plastic PE/PP waste
- 100% Maintenance-free
- 100% Waste material (textile/plastic)
- 100% Recyclable
- 0% additive (chemical binder)
- Made in EU

3-point bending test according to ISO 14125 - 650 mm beam distance

- Modulus of elasticity E_f : 2147,3 [N/mm²]
- Maximum stress of: 17,65 [N/mm²]
- Elongation at maximum load ϵ_f : 1,1%
- Tensile strength of b : 6,15[N/mm²]
- Deflection at break ϵ_{fb} : 1,1%
- Stress at elongation XX, ofc 3.5: 0.35 [N/mm²]
- Maximum load F_m : 7819.55 [N]
- Maximum deflection $Def1Max$: 13137,75 [μm]

Properties:

- Density: 1.26 [g/cm³]
- Width & height tolerance: +2.5%/-1.5%
- Length tolerance: +10/-0 [mm]
- Moisture absorption: 0.7%
- Slip resistance (dry): R11
- Minimum 35 years lifespan
- EPD LCA documentation

