

### Hewitech Attenuation Protective Fleece Specification - HPF40

Mechanical Properties	Test Method	Value	Tolerance
Tensile Strength MD	EN ISO 10319	40 kN/m	-5.2 kN/m
Tensile Strength CD	EN ISO 10319	40 kN/m	-5.2 kN/m
Elongation MD	EN ISO 10319	55%	+/-12.7%
Elongation CD	EN ISO 10319	55%	+/-12.7%
Static puncture resistance – CBR	EN ISO 12236	6.50kN	-1.30 kN
Dynamic perforation resistance – cone drop	EN ISO 13433	5mm	+1.3mm
Protection efficiency	EN ISO 14574	617N	-123.4N

Hydraulic Properties	Test Method	Value	Tolerance
Water permeability normal to the plane	EN ISO 11058	35 X 10 <sup>-3</sup> m/s	-11 X 10.3 m/s
Water flow normal to the plane	EN ISO 11058	35 l/ m <sup>2</sup> .s	-11 l/ m <sup>2</sup> .s
Water flow capacity in the plane 20kPa	EN ISO 12958	8,5 X 10 <sup>-6</sup> m <sup>2</sup> /s	-10% log g
Characteristic opening size (AOS)	EN ISO 12956	70,0 pm	+/-21.0 pm

Physical Properties	Test Method	Value	Tolerance
Thickness under 2 kPa	EN ISO 9863-1	3,00 mm	+/-0.60mm
Composition	100% polypropylene non-woven geotextile		

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Durability	Predicted to be durable for a minimum of 25 years in natural soil with $4 < \text{pH} < 9$ and soil temperatures $< 25^{\circ}\text{C}$
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