

Polyfelt F

Polyfelt F is a two-layer continuous filament nonwoven, one layer designed as filter, the other layer as protection against damage of the filter. This construction allows an optimum number of constrictions in the filter layer, resulting in an extremely low logging risk and high soil retention security.



Properties	Test method	Unit	F60	F70	F80
Type of product	Two-layer mechanically bonded PP continuous filament nonwoven				
Raw material	100 % UV stabilized polypropylene				
Hydraulic Properties					
Number of constrictions	ASTM D 7178-06, XPG 38030	-	25 - 40	25 - 40	25 - 40
Characteristic opening size (O90)	EN ISO 12956	µm	90	85	80
Permeability normal to the plane (Δh = 50 mm)	EN ISO 11058	mm/s	60	45	30
Water flow capacity in the plane (20 kPa)	EN ISO 12958	l/ms	4.0E-3	8.0E-3	1.2E-2
Water flow capacity in the plane (100 kPa)	EN ISO 12958	l/ms	1.1E-3	3.0E-3	4.5E-3
Mechanical Properties					
Elongation at max. load (MD*)	EN ISO 10319	%	85	85	85
Elongation at max. load (CMD*)	EN ISO 10319	%	70	70	75
Energy absorption**	EN ISO 10319	kN/m	11.6	12.4	16.0
Tensile strength (MD*)	EN ISO 10319	kN/m	30	32	40
Tensile strength (CMD*)	EN ISO 10319	kN/m	30	32	40
Dynamic perforation	EN ISO 13433	mm	11	8.5	7
CBR puncture resistance	EN ISO 12236	kN	4.60	4.80	7
Durability Properties					
UV resistance – strength retained	EN 12224	%	>80	>80	>80
Chemical / biological resistance		-	Resistant against all chemical agents and microorganisms usually occurring in seas or rivers		
Identification Properties					
Thickness at 2 kPa load	EN ISO 9863-1	mm	3.70	4.70	6.50
Mass per unit area	EN ISO 9864	g/m ²	400	600	800
Form of Supply					
Width		m	6	6	6
Length		m	100	60	40
Area		m ²	600	360	240

Notes

* MD = Machine Direction, CMD = Cross Machine Direction

** Area of the triangle beneath the stress-strain curve.

The values given are average values obtained in our laboratories and in testing institutes. The right is reserved to make changes without notice at any time.

Certification and Accreditation



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