

P - Protection Geotextiles

Technical Data

TenCate Polyfelt P is a mechanically bonded continuous filament nonwoven from 100% UV stabilized polypropylene. It was developed to guarantee optimum protection efficiency for geomembranes.



TenCate Polyfelt P

Properties <small>[Standard]</small>	Unit	P 50	P 60	P 70	P 80	P 100	P 120
Raw material / Type of fibre	-	100% polypropylene, UV stabilized, continuous filaments					
Strip tensile strength <small>[EN ISO 10319]</small>	MD / CD	34 / 34	38 / 38	42 / 42	45 / 45	55 / 55	62 / 50
Elongation at max. load <small>[EN ISO 10319]</small>	MD / CD	85 / 75	95 / 78	95 / 78	95 / 80	105 / 100	105 / 100
Strength at 10% strain <small>[EN ISO 10319]</small>	weakest direction	7.5	9.0	10.0	11.0	14.0	16.5
CBR puncture resistance <small>[EN ISO 12236]</small>		5.4	6.2	7.2	7.8	9.6	10.0
Cone drop resistance (hole diameter) <small>[EN ISO 13433]</small>		10.5	9.5	8.5	8.0	6.0	3.0
Protection efficiency <small>[EN 13719 - Deformation at 300 kPa]</small>		0.81	0.70	0.62	0.57	0.45	0.30
Opening size <small>[EN ISO 12956]</small>	micron	80	85	80	80	75	70
Permeability vertical <small>[EN ISO 11058] dh = 50 mm</small>	l/m ² s (mm/s)	15	10	10	10	8	8
Water flow rate in the plane <small>[EN ISO 12958]</small>	20 kPa 100 kPa	10 ⁻⁶ m ² /s 10 ⁻⁶ m ² /s	5.5 1.6	7.1 2.3	9.0 3.1	11.0 4.1	11.0 4.1
Weathering resistance <small>[EN 12224]</small> Residual strength	%			> 90			
Chemical resistance <small>[EN 14030, Method A]</small> Residual strength	%			> 80			
Microbiological resistance <small>[EN 12225]</small> Residual strength	%			> 93			
Thickness <small>[EN ISO 9863-1]</small>	2 kPa / 20 kPa	4.2 / 3.3	4.5 / 3.7	5.7 / 4.4	6.0 / 5.0	7.2 / 6.0	8.3 / 7.0
Mass per unit area <small>[EN ISO 9864]</small>		500	600	700	800	1000	1200
Forms of Supply							
Width	m	6.0	6.0	6.0	6.0	5.4	5.2
Length	m	80	65	55	50	40	35

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.

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