

Techtex® BDC

Needle punched and thermally bonded non-woven

Product Family Overview

	Test	Unit	Techtex® BDC6	Techtex® BDC7	Techtex® BDC8	Techtex® BDC9	Techtex® BDC10	Techtex® BDC12	Techtex® BDC12 W	Techtex® BDC13	
Mechanical Properties											
Tensile strength - MD	EN ISO 10319	kN/m	6	7	8	9	10	12	12	13	
Tensile strength - CMD	EN ISO 10319	kN/m	6	7	8	9	10	12	12	13	
Elongation at maximum load - MD	EN ISO 10319	%	40	40	40	40	40	40	40	45	
Elongation at maximum load - CMD	EN ISO 10319	kN	45	45	45	45	45	45	45	45	
Static puncture resistance (CBR)	EN ISO 12236	mm	1.1	1.2	1.3	1.5	1.6	2	2	2.2	
Dynamic perforation resistance (cone drop)	EN ISO 13433		37	35	34	30	28	24	23	21	
Hydraulic Properties											
Water permeability normal to the plane	EN ISO 11058	l/m ² s	115	110	110	100	100	100	90	80	
Waterflow in the plane, @20 kPa	EN ISO 12958	m ² /s									
Characteristic Opening Size (O90)	EN ISO 12956	mm	0.1	0.1	0.1	0.09	0.09	0.08	0.08	0.08	
Physical Properties											
Thickness under 2 kPa	EN ISO 9863-1	mm	1	1.1	1.1	1.2	1.3	1.3	1.3	1.4	
Weight	EN ISO 9864	g/m ²	85	90	100	110	120	145	150	160	
Roll Width (+/- 1%)		m	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	
Roll Length (+/- 1%)		m	100	100	100	100	100	100	100	100	
Truck Load Volume (+/- 10%)		5x100	74000	72000	70000	65000	60000	50000	50000	45000	
Roll diameter (+/- 10%)		cm	30	30	31	32	32	33	34	36	
Durability			Description								
Natural UV Light						Polymer			PP		
Chemical Resistance						Density			0.91		
Microbiological Resistance Hydrolysis						Melting Point			165		
Oxidation Resistance						Construction			Fibres		

The quality management system of Geomas has been approved to the ISO 9001 Quality Management System Standard. Certificates are available on request.

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Product Family Overview

	Test	Unit	Techtex® BDC15	Techtex® BDC16	Techtex® BDC18	Techtex® BDC20	Techtex® BDC20 W	Techtex® BDC21	Techtex® BDC25	Techtex® BDC30
Mechanical Properties										
Tensile strength - MD	EN ISO 10319	kN/m	15	16	18	20	20	21	25	30
Tensile strength - CMD	EN ISO 10319	kN/m.	15	16	18	20	20	21	25	30
Elongation at maximum load - MD	EN ISO 10319	% %	45	45	45	45	45	50	50	50
Elongation at maximum load - CMD	EN ISO 10319	kN	45	45	45	45	45	50	50	50
Static puncture resistance (CBR)	EN ISO 12236	mm	2.5	2.8	3	3.3	3.6	3.8	4.3	5
Dynamic perforation resistance (cone drop)	EN ISO 13433		20	19	17	16	16	15	12	11
Hydraulic Properties										
Water permeability normal to the plane	EN ISO 11058	l /m ² s	70	70	70	60	50	50	45	35
Waterflow in the plane, @20 kPa	EN ISO 12958	m ² /s							3.5x10 ⁻⁶	3.5x10 ⁻⁶
Characteristic Opening Size (O90)	EN ISO 12956	mm	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07
Physical Properties										
Thickness under 2 kPa	EN ISO 9863-1	mm	1.5	1.5	1.5	1.6	1.7	1.8	2.1	2.3
Weight	EN ISO 9864	g/m ²	180	200	215	235	250	260	300	350
Roll Width (+/- 1%)		m	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
Roll Length (+/- 1%)		m	100	100	100	100	100	100	100	100
Truck Load Volume (+/- 10%)		5x100	42000	35000	33000	32000	30000	28000	25000	22000
Roll diameter (+/- 10%)		cm	39	40	41	42	43	44	46	48

Durability
 Natural UV Light
 Chemical Resistance
 Microbiological Resistance Hydrolysis
 Oxidation Resistance

Description
 Polymer: PP
 Density: 0.91
 Melting Point: 165
 Construction: Fibres

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Product Family Overview

	Test	Unit	Techtex® BDC32	Techtex® BDC36	Techtex® BDC40	Techtex® BDC46	Techtex® BDC54	Techtex® BDC62	Techtex® BDC68	Techtex® BDC75
Mechanical Properties										
Tensile strength - MD	EN ISO 10319	kN/m	32	36	40	46	54	62	68	75
Tensile strength - CMD	EN ISO 10319	kN/m	32	36	40	46	54	62	68	75
Elongation at maximum load - MD	EN ISO 10319	%	50	50	50	50	50	50	50	50
Elongation at maximum load - CMD	EN ISO 10319	kN	50	50	50	50	50	50	50	50
Static puncture resistance (CBR)	EN ISO 12236	mm	6	6.5	7	9	10	12	13	15
Dynamic perforation resistance (cone drop)	EN ISO 13433		9	9	6	4	3	2	2	1
Hydraulic Properties										
Water permeability normal to the plane	EN ISO 11058	l / m ² s	35	35	30	25	20	20	20	20
Waterflow in the plane, @20 kPa	EN ISO 12958	m ² /s	4x10 ⁻⁶	4x10 ⁻⁶	4x10 ⁻⁶	4x10 ⁻⁶	4x10 ⁻⁶	4,5x10 ⁻⁶	4,75x10 ⁻⁶	5x10 ⁻⁶
Characteristic Opening Size (O90)	EN ISO 12956	mm	0.08	0.08	0.07	0.07	0.07	0.07	0.07	0.07
Physical Properties										
Thickness under 2 kPa	EN ISO 9863-1	mm	2.7	2.8	3	4	4.5	5	6	6.5
Weight	EN ISO 9864	g/m ²	400	450	500	600	700	800	900	1.00
Roll Width (+/- 1%)		m	6.5	6.5	6.5	6.5	6.5	6.5	6	0.6
Roll Length (+/- 1%)		m	100	100	100	50	50	50	50	50
Truck Load Volume (+/- 10%)		5x100	26000	23400	20800	17550	11700	10800	8900	7500
Roll diameter (+/- 10%)		cm	53	56	60	47	54	59	63	65

Durability	
Natural UV Light	
Chemical Resistance	
Microbiological Resistance Hydrolysis	
Oxidation Resistance	

Description	
Polymer	PP
Density	0.91
Melting Point	165
Construction	Fibres

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Techtex® BDC

Needle punched and thermally bonded non-woven

Product Family Overview

	Test	Unit	Techtex® BDC80						
Mechanical Properties									
Tensile strength - MD	EN ISO 10319	kN/m	80						
Tensile strength - CMD	EN ISO 10319	kN/m.	100						
Elongation at maximum load - MD	EN ISO 10319	%	60						
Elongation at maximum load - CMD	EN ISO 10319	%	50						
Static puncture resistance (CBR)	EN ISO 12236	kN	18						
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	0						
Hydraulic Properties									
Water permeability normal to the plane	EN ISO 11058	l/m ² s	20						
Waterflow in the plane, @20 kPa	EN ISO 12958	m ² /s	5.5x10 ⁻⁶						
Characteristic Opening Size (O90)	EN ISO 12956	mm	0.07						
Physical Properties									
Thickness under 2 kPa	EN ISO 9863-1	mm	8						
Weight	EN ISO 9864	g/m ²	1200						
Roll Width (+/- 1%)		m	6						
Roll Length (+/- 1%)		m	50						
Truck Load Volume (+/- 10%)		5x100	7200						
Roll diameter (+/- 10%)		cm	68						
Durability				Description					
Natural UV Light				Polymer					
Chemical Resistance				Density					
Microbiological Resistance Hydrolysis				Melting Point					
Oxidation Resistance				Construction					
				PP					
				0.91					
				165					
				Fibres					

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