



# TECHNICAL DATA SHEET

## HIGH TENACITY 100% VIRGIN POLYESTER NEEDLE PUNCHED, THERMALLY BONDED NONWOVEN GEOTEXTILE

### MECHANICAL PROPERTIES

### HIGH TENACITY, 100% VIRGIN POLYESTER NEEDLE PUNCHED, THERMALLY BONDED NONWOVEN GEOTEXTILE

NASK GEO-02/2024/APR

NAME	TEST METHOD	UNITS	TOLERANCE	TB0080PT	TB0100PT	TB0125PT	TB0140PT	TB0200PT	TB0250PT	TB0300PT	TB0350PT	TB0400PT	TB0450PT	TB0500PT	TB0600PT	TB0700PT	TB0800PT	TB1000PT	TB1200PT
Tensile strength - MD	EN ISO 10319	KN/M	± 10 %	4.0	5.0	6.0	7.0	10.0	13.0	16.0	18.0	21.0	23.0	26.0	31.0	36.0	42.0	52.0	62.0
Tensile strength - CD	EN ISO 10319	KN/M	± 10 %	5.0	6.0	7.0	8.0	12.0	16.0	20.0	22.0	25.0	28.0	31.0	37.0	44.0	50.0	62.0	75.0
Tensile elongation (MD/CD)	EN ISO 10319	%	± 25 %	50/60	50/60	50/60	50/60	60/65	60/65	60/65	60/65	60/65	60/65	60/65	65/65	65/65	65/65	65/65	65/70
CBR puncture resistance	EN ISO 12236	KN	± 15 %	0.800	1.100	1.300	1.600	2.200	2.600	3.300	3.600	4.100	4.500	5.200	6.200	7.200	8.200	10.20	12.20
Grab strength- (MD/CD)	ASTM D 4632	KN	± 25 %	0.220	0.250	0.280	0.320	0.480	0.600	0.750	0.850	0.900	1.100	1.200	1.440	1.650	1.900	2.400	2.800
Grab elongation- (MD/CD)	ASTM D 4632	%	± 25 %	40/45	40/45	45/50	50/50	50/50	50/50	50/50	50/50	50/55	50/55	50/55	55/60	55/60	55/60	60/60	60/60
Tear strength	ASTM D 4533	N	± 15 %	60	80	100	120	160	200	240	280	320	360	400	480	560	640	800	960
Index puncture	ASTM D 4833	N	± 15 %	-	-	-	-	-	-	250	300	350	400	450	540	630	720	900	1050
Cone drop test	EN ISO 13433	mm	± 15 %	30	28	26	22	18	16	12	8	6	5	4	3	2	0	0	0

### HYDRAULIC PROPERTIES

NAME	TEST METHOD	UNITS	TOLERANCE	TB0080PT	TB0100PT	TB0125PT	TB0140PT	TB0200PT	TB0250PT	TB0300PT	TB0350PT	TB0400PT	TB0450PT	TB0500PT	TB0600PT	TB0700PT	TB0800PT	TB1000PT	TB1200PT
Permeability	EN ISO 11058	Lt/m <sup>2</sup> /sec	±30 %	85	75	70	65	55	45	35	30	25	20	15	14	12	10	4	2
Opening size	EN ISO 12956	µm	± 30 %	90	85	75	70	65	60	60	60	60	60	60	60	55	50	45	40

### PHYSICAL PROPERTIES

NAME	TEST METHOD	UNITS	TOLERANCE	TB0080PT	TB0100PT	TB0125PT	TB0140PT	TB0200PT	TB0250PT	TB0300PT	TB0350PT	TB0400PT	TB0450PT	TB0500PT	TB0600PT	TB0700PT	TB0800PT	TB1000PT	TB1200PT
Thickness @ 2kPa	EN ISO 9863-1	mm	± 20 %	0.6	0.8	0.9	1.0	1.3	1.6	1.7	1.8	1.9	2.0	2.1	2.3	2.5	2.7	3.1	3.2
Weight	EN ISO 9864	g/m <sup>2</sup>	± 10 %	80	100	125	140	200	250	300	350	400	450	500	600	700	800	1000	1200
Roll width	-	MTR	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Roll length	-	MTR	-	100	100	100	100	100	100	100	50	50	50	50	40	40	35	35	30
Roll Weight	-	Kg	-	40	50	62.5	70	100	125	150	87.5	100	112.5	125	120	140	140	175	180

### DURABILITY TEST

NAME	TEST METHOD	VALUE
UV Resistance	ASTMD 4355	70 %
Chemical Resistance	EN ISO 14030/12960	100 %

### PRODUCT DESCRIPTION

NAME	STANDARD	NAME	STANDARD
Polymer	100 % PET	Melting point	250 ° C
Density	1.39 gm/cc	Fiber bonding	THERMAL