



SYNTHESIS GUIDE

	PROPERTIES			PHYSICAL		MECHANICAL				HYDRAULIC				DURABILITY	DIMENSIONS		CONSTRUCTION			
	Product certification using protocol BNQ 7009-210/ 2017	NBDTI product specification	NSTIR product specification	Thickness	Mass per unit area	Tensile strength	Elongation at break	Tear strength	CBR Puncture resistance	Flow rate	Permittivity	Apparent opening size (AOS) (')	Filtration opening size (FOS)		UV resistance (500 hours)	Standard width	Standard length	Fiber type	Construction type	
				ASTM D5199	ASTM D5261	ASTM D4632 (°)		ASTM D4533 (°)	ASTM D6241	ASTM D4491	ASTM D4751	CAN 148.1No.10		ASTM D4355						
				mm	g/m ²	N	%	N	N	l/min/m ²	s-1	µm	µm	%						m
UNIT	VALUE										Min.	Max.								
TX SERIES	TX-70	no	N1	Light weight	≥ 0.8	n/a	≥ 400	≥ 50	≥ 180	≥ 1320	≥ 6095	≥ 2.05	300	75	150	≥ 70	3.81	150	POLYPROPYLENE	NONWOVEN NEEDED
	TX-80	no			≥ 1.0	n/a	≥ 470	≥ 50	≥ 222	≥ 1510	n/a	≥ 2.00	n/a	70	130	≥ 70	3.5	150		
	TX-90	no	N2		≥ 1.0	n/a	≥ 600	≥ 50	≥ 250	≥ 1700	≥ 4600	≥ 1.70	212	60	180	≥ 70	3.81	150		
	TX-110	no			≥ 2.2	n/a	≥ 712	≥ 50	≥ 325	≥ 1825	≥ 4480	≥ 1.50	212	70	150	≥ 70	3.81	100		
	TX-200	no			≥ 2.3	n/a	≥ 911	≥ 50	≥ 360	≥ 2336	≥ 4000	≥ 1.40	180	65	140	≥ 70	3.81	100		
	TX-300	no		Heavy weight	≥ 2.5	≥ 250	≥ 1100	≥ 50	≥ 385	≥ 3310	n/a	≥ 0.90	n/a	45	150	≥ 70	3.81	100		
	TX-400	no	N4		≥ 2.8	n/a	≥ 1200	≥ 50	≥ 530	≥ 3450	n/a	≥ 1.00	n/a	50	90	≥ 70	3.81	100		
TX-1600	no			≥ 5.8	n/a	≥ 2500	≥ 50	≥ 1050	≥ 7000	n/a	≥ 0.27	n/a	40	70	≥ 70	3.81	50			
WOVEN	2002W	no			n/a	n/a	890	15	330	3114	204	0.05	425	n/a		70	3.81	131	WOVEN	
	2004W	no			n/a	n/a	1113	12	400	3338	163	0.05	425	n/a		70	3.81	110		
	2006W	no			n/a	n/a	1402	15	503	4505	163	0.05	425	n/a		70	3.81	110		

n/a : not available

Note 1: Maximum average roll value. Note 2: For TX-80, TX-400 and TX-1600 the tensile strength and elongation is with CAN 148.1 No 7.3. Note 3: For TX-80, TX-400 and TX-1600 the tear strength is with CAN 4.2 No 12.2

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	PROPERTIES		Product certification using protocol BNQ 7009-210/ 2017	BNQ grade	NBDTI product specification	NSTIR product specification	PHYSICAL		MECHANICAL						HYDRAULIC				DURA-BILITY	DIMEN-SIONS		CONSTRUC-TION					
							Thickness	Mass per unit area	Tensile strength in % of CVMS			Elongation at break	Wide width tensile strength, at 5 % elongation			Tear strength	CBR Puncture resistance	Permeability*		Permittivity	Filtration opening size (FOS)		Transmissivity	UV resistance (500 hours)	Standard width*	Standard length*	Fiber type
							ASTM D5199	ASTM D5261	ASTM D4632			ASTM D4595	ASTM D4533	ASTM D6241	ASTM D4491	CAN/CGSB 148.1 - No 10-94			ASTM D6574		ASTM D4355						
							mm	g/m ²	N							%	kN/m			N		N	cm/sec	s-1	µm	m ² /s	%
UNIT	VALUE														Min.	Max.											
BNG PRODUCTS	ROUTEX IV	yes	F1				≥ 0.8*	n/a	≥ 400	≥ 420	≥ 440	≥ 15	n/a	n/a	n/a	≥ 180	≥ 1200 ^v	≥ 0.15	≥ 2.00	100	250	n/d	≥ 70	3.81	150	POLYPROPYLENE	NONWOVEN NEEDED
	TX-170	yes	S2-P1	N3	Medium weight	≥ 1.2*	n/a	≥ 810	≥ 850	≥ 892	≥ 50	n/a	n/a	n/a	≥ 333	≥ 2120	≥ 0.19	≥ 1.10	45	150	n/d	≥ 70	3.81	100			
	TX-800	yes	P3			≥ 3.5	≥ 410	≥ 1470 ^v	≥ 1545	≥ 1615	≥ 50	n/a	n/a	n/a	≥ 515	≥ 4000 ^v	≥ 0.25	≥ 0.70	45	150	n/d	≥ 70	3.81	100			
	ROUTEX II	yes	R1			≥ 0.8*	n/d	≥ 13000 ^v	≥ 13650 ^v	≥ 14300 ^v	< 30	≥ 5.0	≥ 5.78	≥ 6.05	n/d	≥ 2300 ^v	≥ 0.01	≥ 0.05 ^v	45	150	≥ 10 ⁻⁷	≥ 70	3.5	100			
	TX-R	yes	R2			≥ 1.7*	n/a	≥ 13000 ^v	≥ 13650 ^v	≥ 14300 ^v	< 30	≥ 5.0	≥ 5.78	≥ 6.05	n/d	≥ 2300 ^v	≥ 0.01	≥ 0.05 ^v	45	70	≥ 10 ⁻⁷	≥ 70	3.5	100			

* : Characteristics does't go with the certification by BNQ. | n/a : not available

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