



SOLENO
MASTERING WATER SUSTAINABLY

DATA SHEET

TX-R

PRODUCT DESCRIPTION : Geocomposite combining a nonwoven needled geotextile reinforced with a woven geotextile.

MAIN FUNCTION : Reinforcement

PRODUCT CERTIFICATION : Standart BNQ 7009-210/2017, using protocol BNQ 7009-910/2018 and the grade R2*. Compliant with the CCDG of MTQ.

RAW MATERIAL : Polypropylene

TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	VALUES	
			Metric	Imperial
PHYSICAL	Thickness ⁽¹⁾	ASTM D5199	≥ 1.6 mm	≥ 64 mils
	Mass per unit area ⁽¹⁾	ASTM D5261	-	-
	Wide width tensile strength, at break, at < 5 % of CVMS**	ASTM D4595	≥ 13,0 kN/m	≥ 74,1 lb/po
MECHANICAL	Wide width tensile strength, at break, at 5 % to < 10 % of CVMS**	ASTM D4595	≥ 13.65 kN/m	≥ 77.8 lb/po
	Wide width tensile strength, at break, at 10 % to < 15 % of CVMS**	ASTM D4595	≥ 14.3 kN/m	≥ 81.5 lb/po
	Wide width tensile strength, at 5% elongation, at < 5 % of CVMS**	ASTM D4595	≥ 5.0 kN/m	≥ 28.5 lb/po
	Wide width tensile strength, at 5% elongation, at 5 % to < 10 % of CVMS**	ASTM D4595	≥ 5.78 kN/m	≥ 32.9 lb/po
	Wide width tensile strength, at 5% elongation, at 10 % to < 15 % of CVMS**	ASTM D4595	≥ 6.05 kN/m	≥ 34.5 lb/po
	Elongation at break	ASTM D4632	< 30 %	
	Puncture strength (CBR)	ASTM D6241	≥ 2300 N	≥ 517 lb
HYDRAULIC	Permeability ⁽¹⁾	ASTM D4491	≥ 0.01 cm/s	
	Permittivity	ASTM D4491	≥ 0.05 s ⁻¹	
	Filtration opening size (FOS)	CAN/CGSB-148.1 - No 10-94	45 - 70 μm	
	Transmissivity	ASTM D6574	≥ 10 ⁻⁷ m ² /s	
PERFORMANCE AND DURABILITY	UV*** resistance (500 hours)	ASTM D4355	≥ 70 %	
DIMENSIONS	Standard width ⁽¹⁾	-	3.5 m	11.5 ft
	Standard length ⁽¹⁾	-	100 m	328 ft

Note 1: Property not part of the product certification by the BNQ.

* The R2 grade meets the requirements of grade R1.

** CVMS: Coefficient of variation of mass per unit area.

*** UV : Ultraviolet.

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APPLICATIONS : Temporary roadway
Permanent public roadway
Permanent private roadway
Public access road
Commercial parking areas

Storage and loading areas
Roadway widening
Airport runways
Railway tracks

