

GEO-9

Grade R2 MTQ/BNQ

TECHNICAL DATASHEET

Type of geotextile	Reinforced needlepunched nonwoven
Composition	Polypropylene / Polyester
Main function	(R) Reinforcement

Property	Test method	CVMS ⁽¹⁾	SYM ⁽²⁾	Metric	Imperial
MTQ / BNQ grade	R2 (Also satisfies the requirements for standard grade R1 geotextile)				
Physical					
Weight ⁽³⁾	ASTM D5261	-		325 g/m²	10 oz/yd²
Thickness ⁽³⁾	ASTM D5199	-		1.60 mm	63 mil
Durability					
UV resistance (500 hours)	ASTM D4355	-	≥	50%	
Mechanical					
Wide width tensile strength	ASTM D4595	< 5%	≥	13 kN/m	890 lb/ft
		5-10 %	≥	13.65 kN/m	935 lb/ft
		10 -15 %	≥	14.3 kNm	980 lb/ft
Wide width tensile strength @ 5%	ASTM D4595	< 5%	≥	5 kN/m	343 lb/ft
		5-10 %	≥	5.78 kN/m	396 lb/ft
		10 -15 %	≥	6.05 kN/m	415 lb/ft
Wide width tensile strength @ 10% ⁽³⁾	ASTM D4595	-		10 kN/m	685 lb/ft
Elongation at break	ASTM D4595	-	<	30%	
CBR puncture	ASTM D6241	-	≥	2300 N	517 lb
Hydraulic					
Transmissivity	ASTM D6574	-	≥	10 ⁻⁷ m²/s	
Permittivity	ASTM D4491	-	≥	0.05 s ⁻¹	
FOS	CAN 148.1 No.10	-	(4)	45 - 65 µm	
Dimensions					
Width ⁽³⁾	-	-		4 m	13.1 ft
Length ⁽³⁾	-	-		100 m	328.1 ft

*Geo-9 meets MTQ requirements and is certified by the BNQ according to BNQ7009-210 for grade R2 referred to in Table 1 - Geotextile Characteristics. Note that for optimized performance, some mechanical and hydraulic values of Geo-9 are more severe than the MTQ/BNQ requirements. Geo-9 also meets the requirements associated with standard grade R1 geotextile. For other MTQ/BNQ grades, consult the data sheet for the 76 and 900 series.

Please note that this technical data sheet is updated to take into account the new MTQ/BNQ requirements and the transfer of test methods to ASTM (American Society for Testing and Materials) standards instead of CGSB (Canadian General Standards Board) standards.

With the exception of the FOS test method (CAN 148.1 No.10), ASTM test methods are now used, as the CGSB no longer provides updates for these standards.

Our quality management system is certified by the ISO-9001 standard.

Our internal laboratory is certified by the Geosynthetic Accreditation Institute - Laboratory Accreditation Program (GAI-LAP).

Properties are based on the minimum average value per roll (MARV) except for MTQ/BNQ products which are minimums, maximums or intervals.

1- The required wide width tensile strength and wide width tensile strength at 5% of elongation varies according to the established CVMS (Coefficient of Variation of Mass per Unit Area) range. When the CVMS is between 5 and 10%, the tensile strength value must be increased by at least 5% and when the CVMS is between 10 and 15% it is increased by at least 10%. / 2 - Symbol for the MTQ/BNQ / 3 - Properties not included in the certification to the BNQ 7009-210 specification. / 4 - Interval

Informative values : Friction efficiency at the GEO-9/MG-20 interface: 95%.

Delamination resistance of the geocomposite: > 500 N/m machine direction according to ASTM D7005.

Particular attention must be given to storage conditions and handling to avoid any alteration of certain properties.

Geo-9 is manufactured by Texel Matériaux Techniques Inc.

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