

NONWOVEN GEOTEXTILE APPLICATIONS

Application Recommendations for Syntex Nonwoven Geotextiles		
Civil	Erosion Control	GNP: B1, C1
	Drainage	GNP: A1, B1
	Roadway Separation	GNP: A1, B1, C1
	Roadway Stabilisation	GNP: B1, C1, D1
	Railroad Stabilisation	GNP: E1
Environmental	Geomembrane Liner Protection	GNP: C1, D1, E1
	Gas Venting	GNP: D1, E1
	Landfill Leachate Collection	GNP: B1, C1
	Landfill Drainage Systems	GNP: C1

PHYSICAL PROPERTIES							
GEOTEXTILES NONWOVEN Polypropylene (product prefix: GNP)							
STRENGTH/ FILTRATION GRADES (NSW RMS and QLD MRTS)							
PRODUCT CODE (GNP:)			A1	B1	C1	D1	E1
MECHANICAL							
Grab Strength	AS 2001.2.3.2	N	580 min	800 min	1100 min	1550 min	1850 min
Tensile Strength at Break	AS 3706.2	kN/m	10 min	12.5 min	18.2 min	23 min	28 min
Trapezoidal Tear	AS 3706.3	N	230 min	300 min	420 min	600 min	650 min
CBR Puncture	AS 3706.4	N	1700 min	2500 min	3100 min	4100 min	4800 min
G-Rating	Austrroads	-	1450 min	2250 min	2850 min	3900 min	4500 min
HYDRAULIC							
Effective Opening Size (EOS)	ASTM D4751	micron	< 120 av	< 110 av	< 90 av	< 90 av	< 75 av
Water Flow Rate	AS 3706.9	l/m ² /sec	225 av	175 av	140 av	125 av	105 av
ENDURANCE							
UV Resistance (Retained @ 500 hrs)	ASTM D4355	%	> 70	> 70	> 70	> 70	> 70
PHYSICAL							
Mass	AS 3706.1	g/m ²	145 av	192 av	240 av	325 av	375 av
Thickness	AS 3760.1	mm	1.25 av	1.50 av	1.75 av	2.35 av	2.80 av

All values indicated as min are MARV (minimum average roll values), calculated as typical minus two standard deviations. All values indicated as av are Typical (mean or average value of all test data). The data in all tables is intended as guides only and is not intended as a warranty or guarantee. Permathene reserves the right to change the specification contained herein without notice. Updated: July 10 2017.



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