

## MATERIAL SPECIFICATION

### GEOTEX 401 NON WOVEN GEOTEXTILE

Geotex 401 is a polypropylene, staple fibre, needle-punched nonwoven geotextile manufactured at one of Synthetic Industries' facilities that has achieved ISO-9002 certification for its systematic approach to quality. The fibres are needled to form a stable network that retains dimensional stability relative to each other. The geotextile is resistant to ultra violet degradation and to biological and chemical environments normally found in soils. Geotex 401 conforms to the property values listed below<sup>1</sup> which have been derived from quality control testing performed by one of Synthetic Industries' GAI-LAP accredited laboratories:

PROPERTY	TEST METHOD	UNIT	TYPICAL ROLL VALUES
<b>Physical</b>			
Mass Per Unit Area	ASTM D5261 ISO 9864 AS 3706-1	g/m <sup>2</sup>	135
Thickness	ASTM D5199 AS 3706-1	mm	1.2
<b>Mechanical</b>			
Grab Tensile Strength	ASTM D4632 AS 2001.2.3 method B	N	555
(Elongation @ Break)		%	60
Wide Width Tensile Strength	ASTM D4595 BS 6906-1 AS 3706-2	KN/m	9.0
(Elongation @ Break)		%	40
Trapezoidal Tear	ASTM D4533 AS 3706-3	N	245
Mullen Burst	ASTM D3786 AS 2001.2.4 method B	KPa	1675
Puncture Strength	ASTM D4833	N	310
CBR Burst	GRI-GSI BS 6906-4 AS 3706-4 DIN 54307	N	1855
G Rating	QLDMRD	>1400	
<b>Hydraulic</b>			
Pore Size (095)	ASTM D4751 (Dry)	mm	0.150
Permeability	ASTM D4491		0.30
BS 9606-3	cm/seg	0.26	
Permittivity	ASTM D4491	seg-1	2.4
Water Flow Rate	ASTM D4491		6325
BS 9606-3	l/min/m <sup>2</sup>	12220	
<b>Endurance</b>			
UV Resistance	ASTM D4355	%	70

NOTES: Roll Dimensions: 2x100m; 4x100m; 4x250m

The property values listed below are effective 15/01/2000 and are subject to change without notice.

Values shown are in weaker principal direction. Typical indicates mean or average value of all test data.