

C SERIES

TECHNICAL DATASHEET

Product	Needlepunched nonwoven short staple fibers geotextile
Composition	Polypropylene ⁽¹⁾
Main function	Separation

Property	Test Method	Unit	TEXEL031C	TEXEL035C	TEXEL038C	TEXEL040C	TEXEL045C*	TEXEL055C	TEXEL060C*	TEXEL070C	TEXEL080C*	TEXEL100C	TEXEL120C	TEXEL160C												
Mechanical																										
Tensile strength	ASTM D4632	N lbs	356	80	401	90	420	95	450	101	533	120	600	135	712	160	801	180	911	205	1112	250	1357	305	1690	380
Elongation at break	ASTM D4632	%	50-105		50-105		50-105		50-105		50-105		50-105		50-105		50-105		50-105		50-105		50-105		50-105	
Trapezoid tear	ASTM D4533	N lbs	130	30	170	38	180	40	200	45	222	50	250	55	267	60	333	75	356	80	444	100	511	115	644	145
CBR puncture	ASTM D6241	N lbs	934	210	1180	265	1200	270	1320	300	1510	340	1690	380	1824	410	2110	475	2380	535	3114	700	3780	850	5500	1236
UV resistance	ASTM D4355	%/500h	70		70		70		70		70		70		70		70		70		70		70		70	
Hydraulic																										
Flow rate	ASTM D4491	L/min/m ² G/min/ft ²	6095	150	6095	150	6095	150	6095	150	4885	120	4600	115	4480	110	4074	100	4000	98	3251	80	3055	75	2035	50
Permittivity	ASTM D4491	s ⁻¹	2.2		2.0		2.0		2.0		1.7		1.6		1.5		1.4		1.4		1.2		1.0		0.7	
AOS ⁽²⁾	ASTM D4751	μm sieves	300	50	300	50	300	50	212	70	212	70	212	70	212	70	212	70	180	80	150	100	150	100	150	100
Dimensions																										
Width	N/A	m ft	3.81 - 4.57 - 5.25												12.5 - 15 - 17.2											
Length	N/A	m ft	91.44												300											

Our quality management system is certified by ISO-9001 standard. Our internal laboratory is certified by the Geosynthetic Accreditation Institute - Laboratory Accreditation Programm (GAI-LAP).

All values are MARV except when specified.

The values entered are values obtained at the time of manufacture. Handling and storage conditions may change some properties.

Puncture resistance (ASTM D4833) is no longer recognized by AASHTO M288 as an acceptable geotextile test and has been replaced by CBR puncture (ASTM D6241).

Burst resistance (ASTM D3786 and CAN 4.2 No.1.1.1) have been removed by AASHTO M288 because they are no longer suitable for the needs of the industry.

1-May contain polyester / 2- Maximum average roll value

C Series products are NTPEP certified and meets requirements as per AASHTO and/or D.O.T standards.

*AASHTO M288-17 (Elongation ≥50%) : Class 3 = TEXEL045; Class 2 = TEXEL060C; Class 1 = TEXEL080C

Revision : 2019-07-23

Texel reserves the right to modify existing properties contingent on the evolution of technical knowledge. Each user is invited to verify if this document represents the most recent update. Texel offers no guarantee and assumes no responsibility regarding usage, installation and/or convenience of usage. Texel must be informed of all product defects or product nonconformity prior to installation. Responsibility is limited to replacement of non-compliant or defective product.