PRODUCT SPECIFICATION
DuPont Nonwovens

Features: _____ *Product:* Tyvek® Spunbonded Olefin

_____ *Style:* 1025D 1.25 oz/yd^2

Customer-Use/End-Use: _____ *Customer Delivery Unit:* Roll

Graphics *Product Unit:* Mill Roll

Use Exception: _____ *Effective Date:* April 1999 *Merge:* 18772

Specification Properties	**99.994% Range (Roll Ave.)**						**Test Method**	
	------US Units------			**-International Units-**				**Comparable**
	Aim	**Low**	**High**	**Aim**	**Low**	**High**	**DuPont**	**ASTM Std.**
Unit Weight US - oz yd^2 Int'l – g/m^2	1.25	1.18	1.31	42.4	40.0	44.4	0010-96	D3776-85 (1990)[1]
Delamination US – lb/in Int'l – N/2.54cm	0.28	0.17	0.40	1.25	0.76	1.78	0005-96	D2724-87
Log R (at 55% RH) smooth & rough side	N/A	-	9.8	N/A	-	9.8	0025-90	D257-93[2]

Roll Averages are based on samples taken uniformly across their width.

Specification properties are controlled to aim and released within specifications. The customer is responsible for determining that Tyvek® is suitable for the intended application.

[1] Modified for specimen size
[2] Electrodes 0.75 in^2, 0.5 inches apart on the same side of sheet

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The following data is supplied for information:

Non-Specification Properties	**99.994% Range (Roll Ave.)**						**Test Method**	
	--------US Units---------			**--International Units--**				**Comparable**
	Nominal	**Low**	**High**	**Nominal**	**Low**	**High**	**DuPont**	**ASTM Std.**
Opacity US - % Int'l - %	94.6	90.8	98.8	94.6	90.8	98.8	0020-96	T-425 om-91(TAPPI)
Thickness (Roll Ave.) US - mils Int'l - µm	5.0	3.8	6.3	127	97	160	0027-96	D1777-64(1975)[3]
Thickness (Indiv.) US - mils Int'l - µm	5.0	1.5	8.6	127	38	218	0027-96	D1777-64(1975)[3]
Tensile (MD) US - lb/in Int'l – N/2.54cm	20.4	16.2	24.6	91	72	109	0041-96	D5035-90[4]
Tensile (CD) US - lb/in Int'l – N/2.54cm	22.5	16.6	28.5	100	74	127	0041-96	D5035-90[4]
Elmendorf Tear (MD) US - lb Int'l - m-N	0.84	0.49	1.19	3738	2181	5296	0007-96	D1922-93 D1424-83
Elmendorf Tear (CD) US - lb Int'l - m-N	0.82	0.47	1.16	3649	2092	5162	0007-96	D1922-93 D1424-83

Roll Averages are based on samples taken uniformly across their width.

Non-specification properties are monitored. The values shown for non-specification properties are typical but carry no warranty, expressed or implied. The customer is responsible for determining that Tyvek® is suitable for the intended application.

[3] 7.15 psi, 0.62 inches diameter presser foot
[4] Modified for speed and gauge length

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Property	***Class***	***N***
Unit Weight, oz/yd^2	II	50
Delamination, lb/in	II	197
Log R (at 55% RH)	III	-
Opacity, %	III	49
Thickness, mils (Roll Avg.)	III	112
Tensile (MD), lb/in	III	50
Tensile (CD), lb/in	III	50
Elmendorf Tear (MD), lb	III	50
Elmendorf Tear (CD), lb	III	49
Contact Angle, degrees	II	-

Database Information

N = The minimum number of roll averages included in the database used for this specification update.

DATE RANGE = 1/1/97 – 11/12/98

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Visual Quality	***Class***	***Limits (Minimum Grade)***
Antistat Nord Dye	III	2
Bonder Melts	III	1
Imprints	III	1
Rope	III	1
Spits	III	1
Visual Creases, beyond first 5 yds at core	III	None

Release Limits (Mill Roll Averages) for startup and transition rolls and off-aim.

	Minimum	***Maximum***
Delamination, lb/in	0.20	0.37
Log R	-	9.8
Nord Dye, Grade	2	-
Tensile (MD), lb/in	17.2	-
Unit weight, oz/yd^2	1.20	1.30
Contact Angle, degrees	-	72

Monitored Physical Property Alert Limits (Mill Roll Averages).

Thickness, mils	4.1	6.0
Opacity, %	91.8	97.8
Elmendorf Tear (MD), lb	0.60	-

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Other Information

Irganox 1010	III	1500 ppm, typical 4800 ppm, max
Indopol Oil	III	< or = 2500 ppm

Unit Weight:

In addition to control of bonded product, T-800 rolls will meet Beta Gauge limits of:

Profile Basis Weight High	7.2 %
Profile Basis Weight Low	7.2 %
Profile High-Low-High	13 %

APPROVALS (authorized signature, title, and date for each

Product Quality/Service: _____
Name Title Date

Marketing: _____
Name Title Date

Manufacturing: _____
Name Title Date