



ANALYSIS REPORT
SCC Accreditation No.: 40

Mr Jerry Van Velden
Cantex Coatings

Date: March 7, 2008
 Report: S781-001-25464A

IDENTIFICATION: Membrane: initial, at -5.6°C
 Received: November 13, 2006; PO#: 200603

STANDARD:

TEST: Vulcanized Rubber and Thermoplastic Elastomers-Tension ASTM D412 - 98a (2002)

TEST CONDITIONS: Conditioned sample(s) (21 °C, 65 % R.H.); Method A; Specimen type IV - ASTM D638;
 Apparatus used: Dynamometer with a Constant Rate of Extension (CRE);
 Speed: 500 mm/min; Grip distance: 65 mm;
 Tested November 24, 2006 and January 12, 2007

RESULTS:	Individual Data					Avg.	S.D.	% CV
initial								
MACHINE DIRECTION	...							
Thickness (mm):	2.4	3.0	3.2	2.8	3.1			
Stress at yield (MPa):	0.18	0.17	0.15	0.15	0.15	0.16	0.01	8.8
Elongation at yield (%):	89.8	93.3	90.8	111.0	80.1	93.0	11.2	12.1
Stress at maximum load (MPa):	0.41	0.40	0.36	0.37	0.35	0.38	0.03	6.8
Elongation at break (%):	1187	>1210	>1210	>1202	>1203			
Tensile set (elongation) (%):	92.0	108.0	108.0	100.0	76.0	96.8	13.4	13.8
CROSS DIRECTION	...							
Thickness (mm):	2.5	2.7	2.7	2.6	2.5			
Stress at yield (MPa):	0.14	0.13	0.14	0.15	0.14	0.14	0.01	5.1
Elongation at yield (%):	103.3	108.9	103.3	100.1	107.8	104.7	3.6	3.5
Stress at maximum load (MPa):	0.32	0.32	0.34	0.35	0.33	0.33	0.01	3.9
Elongation at break (%):	>1205	>1195	>1209	>1200	>1210			
Tensile set (elongation) (%):	100.0	148.0	108.0	100.0	120.0	115.2	20.1	17.4

Prepared by:

Jonathan Trudel
 Jonathan Trudel, Tech.
 Technician

Approved by:

Eric Blond
 Eric Blond, Eng., M.Sc.A.
 Vice-President

Date: March 7, 2008

****For any information concerning this report, please contact Eric Blond****

The reports are identified by an alphanumeric code, the last character refers to the number of revision(s), this is emitted in ascending order. The samples in relation to this test are retained for a period of 30 days following the expedition day of the written report, unless other instructions are received. The fees for all services after the tests are 125.00 \$ per hour and for appraisal in Court, 195.00\$ per hour. The above reported results refer exclusively to the samples submitted for evaluation. This analysis report cannot be partly used or reproduced, unless in whole, without CTT Group prior written consent.



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RESULTS (CONT): Individual Data Avg. S.D. % CV

at -5.6°C

MACHINE DIRECTION

	2.8	3.0	3.0	2.7	2.5			
Thickness (mm):	2.8	3.0	3.0	2.7	2.5			
Stress at yield (MPa):	2.7	3.2	2.9	2.7	2.9	2.9	0.2	7.1
Elongation at yield (%):	40.1	29.6	38.8	39.2	40.3	37.6	4.5	12.0
Stress at maximum load (MPa):	2.3	2.6	2.7	2.6	2.6	2.6	0.2	5.9
Elongation at break (%):	>480	>480	>480	>480	>480			
Tensile set (elongation) (%):	30.0	30.0	30.0	30.0	29.0	29.8	0.4	1.5

CROSS DIRECTION

	3.1	3.3	3.4	3.1	2.8			
Thickness (mm):	3.1	3.3	3.4	3.1	2.8			
Stress at yield (MPa):	3.2	3.0	2.9	3.3	3.2	3.1	0.2	5.3
Elongation at yield (%):	40.7	39.0	34.3	36.3	34.2	36.9	2.9	7.8
Stress at maximum load (MPa):	496.7	505.7	505.4	495.9	490.9	498.9	6.4	1.3
Elongation at break (%):	>490	>490	>490	>490	>490			
Tensile set (elongation) (%):	12.0	20.0	24.0	16.0	12.0	16.8	5.2	31.0

REMARKS: Gage length used to calculate percentages of elongation: 33 mm for yield point and 50 mm for break point.
 The membrane was prepared on a plastic sheet to a thickness of approximately 3.0 mm but tested without this support.

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