

March 3, 2010

To Whom It May Concern:

Lexan* 40 mm Thermoclick Sheet has been tested in accordance with ISO 11341.
The details of the test method are listed below:

Settings	ATLAS CI5000
Standard	ISO11341
Lightsource	Xenon
Power	
Radiation	300-400nm 50W/m2
Black standard temp	65C
Chamber temp.	40C
%RH	70%
Cycle	Constant light
Spray on /off filters	18minutes on /102 minutes off inner CIRA , outer Sodalime

The following data sets showing the change in color (DE), yellowness index (dYI) and light transmission (delta LT) for several colors of Lexan 40 mm Thermoclick multiwall sheet are hereby presented:

LTC40/4X4000-112
clear

Time	*L	*A	*B	dL	dA	dB	DE	YI D1925	d YI D1925	YI E313	d YI E313	LT	delta LT
0	70.02	-0.32	0.91	0.00	0.00	0.00	0.00	1.67	0.00	1.12	0.00	43.70	0.00
468	69.53	-0.35	1.46	-0.49	-0.03	0.55	0.74	2.99	1.32	2.25	1.13	43.60	-0.10
1000	68.30	-0.36	2.67	-1.72	-0.04	1.76	2.46	5.96	4.29	4.78	3.66	44.20	0.50
2022	68.27	-0.60	3.14	-1.75	-0.28	2.23	2.85	6.74	5.07	5.62	4.50	43.10	-0.60
3008	68.26	-0.66	3.40	-1.76	-0.34	2.49	3.07	7.29	5.62	6.13	5.01	42.70	-1.00
3976	68.41	-0.71	3.50	-1.61	-0.39	2.59	3.07	7.44	5.77	6.30	5.18	42.70	-1.00
4913	67.77	-0.76	3.74	-2.25	-0.44	2.83	3.64	8.01	6.34	6.82	5.70	43.10	-0.60
6000	67.89	-0.84	3.99	-2.13	-0.52	3.08	3.78	8.48	6.81	7.28	6.16	42.40	-1.30
7012	67.93	-0.82	4.11	-2.09	-0.50	3.20	3.85	8.81	7.14	7.54	6.42	41.60	-2.10
8000	67.87	-0.90	4.28	-2.15	-0.58	3.37	4.04	9.12	7.45	7.87	6.75	42.50	-1.20

* Registered trademark(s) of SABIC Innovative Plastics BV

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LTC40/4X4000-GN8B038T IR absorbing green

Time	*L	*A	*B	dL	dA	dB	DE	d YI		d YI		LT	delta LT
								YI D1925	D1925	YI E313	E313		
0	61.56	-4.41	10.22	-	-	-	0.00	19.69	-	20.61	-	30.90	
468	60.87	-4.29	10.23	-0.69	0.12	0.01	0.70	20.01	0.32	20.80	0.19	30.70	-0.20
1000	59.45	-4.10	11.02	-2.11	0.31	0.80	2.28	22.44	2.75	22.74	2.13	30.40	-0.50
2022	59.98	-4.22	11.25	-1.58	0.19	1.03	1.90	22.64	2.95	22.99	2.38	30.50	-0.40
3008	59.70	-4.22	11.40	-1.86	0.19	1.18	2.21	23.06	3.37	23.35	2.74	30.30	-0.60
3976	59.14	-4.17	11.36	-2.42	0.24	1.14	2.69	23.19	3.50	23.41	2.80	30.30	-0.60
4913	58.81	-4.23	11.55	-2.75	0.18	1.33	3.06	23.62	3.93	23.88	3.27	30.20	-0.70
6000	59.66	-4.28	11.73	-1.90	0.13	1.51	2.43	23.72	4.03	23.95	3.34	30.20	-0.70
7012	59.05	-4.21	11.58	-2.51	0.20	1.36	2.86	23.65	3.96	23.86	3.25	30.00	-0.90
8000	59.66	-4.27	11.9	-1.90	0.14	1.68	2.54	24.12	4.43	24.28	3.67	30.00	-0.90

LTC40/4X4000-YW9C007T yellow

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E313	E313		
0	69.14	-8.90	26.27	-	-	-	0.00	44.15	-	43.54	-	40.80	
468	68.54	-8.19	24.55	-0.60	0.71	-1.72	1.96	42.24	-1.91	41.44	-2.10	40.70	-0.10
1000	67.79	-7.44	23.98	-1.35	1.46	-2.29	3.03	42.35	-1.80	41.00	-2.54	40.00	-0.80
2022	67.64	-7.13	22.99	-1.50	1.77	-3.28	4.02	40.98	-3.17	39.64	-3.90	39.90	-0.90
3008	67.16	-6.65	21.93	-1.98	2.25	-4.34	5.27	39.79	-4.36	38.28	-5.26	39.30	-1.50
3976	67.00	-6.45	21.26	-2.14	2.45	-5.01	5.97	38.84	-5.31	37.34	-6.20	39.00	-1.80
4913	66.40	-6.21	20.80	-2.74	2.69	-5.47	6.68	38.48	-5.67	36.89	-6.65	38.90	-1.90
6000	66.35	-6.03	20.28	-2.79	2.87	-5.99	7.20	37.71	-6.44	36.10	-7.44	38.50	-2.30
7012	66.58	-5.92	20.02	-2.56	2.98	-6.25	7.38	37.27	-6.88	35.62	-7.92	38.70	-2.10
8000	67.08	-5.90	19.97	-2.06	3.00	-6.30	7.28	36.99	-7.16	35.35	-8.19	38.90	-1.90

LTC40/4X4000-RD7C005T red

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E313	E313		
0	52.90	29.63	16.12	-	-	-	0.00	87.04	-	39.36	-	23.50	0.00
468	52.86	29.14	16.86	-0.04	-0.49	0.74	0.89	87.80	0.76	40.63	1.27	23.50	0.00
1000	51.17	28.37	17.64	-1.73	-1.26	1.52	2.63	90.23	3.19	42.76	3.40	23.30	-0.20
2022	51.77	28.25	17.92	-1.13	-1.38	1.80	2.53	89.80	2.76	42.83	3.47	23.30	-0.20
3008	51.74	27.69	18.24	-1.16	-1.94	2.12	3.10	89.55	2.51	43.33	3.97	23.30	-0.20
3976	52.43	27.95	18.66	-0.47	-1.68	2.54	3.08	89.95	2.91	43.69	4.33	22.60	-0.90
4913	51.91	27.46	18.38	-0.99	-2.17	2.26	3.29	89.19	2.15	43.42	4.06	23.50	0.00
6000	51.93	27.15	18.46	-0.97	-2.48	2.34	3.54	88.84	1.80	43.52	4.16	23.30	-0.20
7012	51.01	26.86	18.43	-1.89	-2.77	2.31	4.07	89.42	2.38	43.91	4.55	22.70	-0.80
8000	52.05	26.95	18.57	-0.85	-2.68	2.45	3.73	88.57	1.53	43.6	4.24	23.50	0.00

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LTC40/4X4000-GN7C018T green

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E133	E133		
0	63.69	-23.83	10.22	-	-	-	0.00	-2.65	-	18.22	-	33.30	0.00
468	63.69	-22.97	9.11	0.00	0.86	-1.11	1.40	-4.31	-1.66	16.13	-2.09	33.10	-0.20
1000	62.45	-22.16	9.27	-1.24	1.67	-0.95	2.29	-3.10	-0.45	16.80	-1.42	33.00	-0.30
2022	62.75	-21.77	8.93	-0.94	2.06	-1.29	2.61	-3.51	-0.86	16.07	-2.15	32.90	-0.40
3008	62.50	-21.26	8.61	-1.19	2.57	-1.61	3.26	-3.76	-1.11	15.50	-2.72	32.90	-0.40
3976	62.64	-20.53	8.33	-1.05	3.30	-1.89	3.95	-3.60	-0.95	14.97	-3.25	30.50	-2.80
4913	62.47	-20.27	8.17	-1.22	3.56	-2.05	4.29	-3.71	-1.06	14.70	-3.52	33.20	-0.10
6000	62.80	-19.90	8.06	-0.89	3.93	-2.16	4.57	-3.55	-0.90	14.45	-3.77	32.90	-0.40
7012	63.06	-19.24	7.92	-0.63	4.59	-2.30	5.17	-3.10	-0.45	14.20	-4.02	32.40	-0.90
8000	62.59	-19.44	7.97	-1.10	4.39	-2.25	5.05	-3.25	-0.60	14.34	-3.88	32.50	-0.80

LTC40/4X4000-OR6C012T orange

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E133	E133		
0	55.90	21.95	94.25	-	-	-	0.00	141.16	-	99.21	-	26.40	0.00
468	55.63	21.66	93.60	-0.27	-0.29	-0.65	0.76	140.82	-0.34	99.15	-0.06	26.60	0.20
1000	55.02	21.47	92.24	-0.88	-0.48	-2.01	2.25	140.73	-0.43	99.06	-0.15	26.40	0.00
2022	54.95	21.91	92.66	-0.95	-0.04	-1.59	1.85	141.51	0.35	99.20	-0.01	26.10	-0.30
3008	53.78	21.39	90.56	-2.12	-0.56	-3.69	4.29	141.24	0.08	99.14	-0.07	26.20	-0.20
3976	54.86	21.74	92.18	-1.04	-0.21	-2.07	2.33	141.24	0.08	99.11	-0.10	23.80	-2.60
4913	54.59	21.63	91.63	-1.31	-0.32	-2.62	2.95	141.15	-0.01	99.08	-0.13	26.20	-0.20
6000	54.73	21.62	92.05	-1.17	-0.33	-2.20	2.51	141.15	-0.01	99.13	-0.08	25.90	-0.50
7012	54.76	21.44	92.17	-1.14	-0.51	-2.08	2.43	140.89	-0.27	99.15	-0.06	25.40	-1.00
8000	54.37	21.52	91.40	-1.53	-0.43	-2.85	3.26	141.14	-0.02	99.12	-0.09	25.90	-0.50

LTC40/4X4000-BL6C024T blue

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E133	E133		
0	47.67	-7.72	-21.96	-	-	-	0.00	-107.32	-	-84.20	-	17.40	0.00
468	48.77	-7.61	-20.80	1.10	0.11	1.16	1.60	-98.89	8.43	-77.29	6.91	17.80	0.40
1000	47.47	-7.64	-18.87	-0.20	0.08	3.09	3.10	-91.38	15.94	-70.73	13.47	17.90	0.50
2022	47.92	-7.91	-17.51	0.25	-0.19	4.45	4.46	-84.39	22.93	-64.52	19.68	18.60	1.20
3008	49.02	-7.77	-16.53	1.35	-0.05	5.43	5.60	-77.86	29.46	-59.26	24.94	18.90	1.50
3976	49.44	-7.77	-15.55	1.77	-0.05	6.41	6.65	-72.80	34.52	-55.01	29.19	19.00	1.60
4913	49.59	-7.61	-14.85	1.92	0.11	7.11	7.37	-69.19	38.13	-52.10	32.10	19.70	2.30
6000	50.39	-7.58	-14.25	2.72	0.14	7.71	8.18	-65.57	41.75	-49.13	35.07	20.20	2.80
7012	50.25	-7.55	-13.73	2.58	0.17	8.23	8.63	-63.39	43.93	-47.29	36.91	19.50	2.10
8000	51.19	-7.43	-13.19	3.52	0.29	8.77	9.45	-59.93	47.39	-44.55	39.65	20.80	3.40

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LTC40/4X4000-VT5C010T violet

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E313	E313		
0	42.52	26.09	-17.85	-	-	-	0.00	-26.47	-	-63.15	-	14.00	0.00
468	43.37	25.43	-16.31	0.85	-0.66	1.54	1.88	-19.78	6.69	-55.66	7.49	14.40	0.40
1000	42.19	24.17	-14.07	-0.33	-1.92	3.78	4.25	-12.03	14.44	-47.86	15.29	14.60	0.60
2022	43.32	23.06	-12.87	0.80	-3.03	4.98	5.88	-8.64	17.83	-42.39	20.76	15.00	1.00
3008	43.88	22.18	-11.46	1.36	-3.91	6.39	7.61	-4.14	22.33	-36.75	26.40	15.10	1.10
3976	44.40	21.59	-10.47	1.88	-4.50	7.38	8.85	-1.10	25.37	-32.92	30.23	13.10	-0.90
4913	44.56	21.37	-10.19	2.04	-4.72	7.66	9.23	-0.32	26.15	-31.78	31.37	16.00	2.00
6000	44.99	20.70	-9.39	2.47	-5.39	8.46	10.33	1.63	28.10	-28.82	34.33	16.40	2.40
7012	45.19	20.29	-8.67	2.67	-5.80	9.18	11.18	3.76	30.23	-26.29	36.86	13.40	-0.60
8000	45.57	20.16	-8.51	3.05	-5.93	9.34	11.48	4.10	30.57	-25.56	37.59	17.00	3.00

LTC40/4X4000-WH7A092X opal white

Time	*L	*A	*B	dL	dA	dB	DE	YI	d YI	YI	d YI	LT	delta LT
								D1925	D1925	E313	E313		
0	49.52	0.04	1.10	-	-	-	0.00	3.35	0.00	2.13	0.00	15.70	
468	48.68	0.03	1.47	-0.84	-0.01	0.37	0.92	4.53	1.18	3.15	1.02	15.80	0.10
1000	47.18	0.03	2.53	-2.34	-0.01	1.43	2.74	8.10	4.75	6.17	4.04	15.70	0.00
2022	47.23	-0.18	2.89	-2.29	-0.22	1.79	2.91	8.84	5.49	7.01	4.88	15.70	0.00
3008	47.23	-0.23	3.14	-2.29	-0.27	2.04	3.08	9.55	6.20	7.67	5.54	15.80	0.10
3976	47.23	-0.25	3.32	-2.29	-0.29	2.22	3.20	10.08	6.73	8.14	6.01	15.60	-0.10
4913	48.07	-0.33	3.52	-1.45	-0.37	2.42	2.85	10.41	7.06	8.50	6.37	15.70	0.00
6000	47.43	-0.39	3.59	-2.09	-0.43	2.49	3.28	10.65	7.30	8.78	6.65	15.70	0.00
7012	48.10	-0.37	3.85	-1.42	-0.41	2.75	3.12	11.37	8.02	9.35	7.22	15.20	-0.50
8000	47.39	-0.41	3.86	-2.13	-0.45	2.76	3.52	11.45	8.10	9.47	7.34	15.80	0.10

In addition to this weathering data for Lexan Thermoclick Sheet Sabic-Innovative Plastics offers a 10 year limited warranty against loss of impact, yellowing, and loss of light transmission due to weathering as outlined in the Lexan Thermoclick Sheet warranty available from your sales representative.

If you have questions regarding this data please contact me.

Sincerely,



Michael Laurin
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