

SEALANT TEST REPORT
GE SILICONES CONSTRUCTION LABORATORY
WATERFORD, NY

DATE: January 2003



GE Lab #: 578-6591
 Project: Adhesion Study to Sheet Materials
 Type of Test: Peel Adhesion per ASTM C794 protocol
 Substrate: Polycarbonate - **GE Plastics Lexan polycarbonate**

Sample No.	Cure Condition	Cure Time (days)	Sealant / Prep	Force (lbs/inch)	% Adh.	Comments
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	56.1	100	GE Lexan 9034 (untreated polycarbonate)
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	53.1	100	GE Lexan 9034 (untreated polycarbonate)
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	30.8	100	GE Lexan 9034 (untreated polycarbonate)
2	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	52.4	100	GE Lexan 9034 (untreated polycarbonate)
2	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	45.1	100	GE Lexan 9034 (untreated polycarbonate)
2	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	51.8	100	GE Lexan 9034 (untreated polycarbonate)
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	46.6	100	GE Lexan 9034 (untreated polycarbonate)
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	47.8	100	GE Lexan 9034 (untreated polycarbonate)
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	46.3	100	GE Lexan 9034 (untreated polycarbonate)
2	RT Cure	14 days	SilPruf SCS2000 / Novus Wipe	37.2	100	GE Lexan 9034 (untreated polycarbonate)
2	1 day water	15 days	SilPruf SCS2000 / Novus Wipe	48.4	100	GE Lexan 9034 (untreated polycarbonate)
2	7 day water	21 days	SilPruf SCS2000 / Novus Wipe	47.2	100	GE Lexan 9034 (untreated polycarbonate)
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	36.1	100	GE Lexan 9034 (untreated polycarbonate)
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	40.5	100	GE Lexan 9034 (untreated polycarbonate)
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	38.9	100	GE Lexan 9034 (untreated polycarbonate)
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	33.8	100	GE Lexan 9034 (untreated polycarbonate)
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	36.8	100	GE Lexan 9034 (untreated polycarbonate)
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	31.2	100	GE Lexan 9034 (untreated polycarbonate)
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	53.0	100	GE Lexan XL10 (adhesion tested to treated side)
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	51.0	100	GE Lexan XL10 (adhesion tested to treated side)
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	48.0	100	GE Lexan XL10 (adhesion tested to treated side)
2	RT Cure	14 days	SilPruf SCS2000 / SS4179	55.0	100	GE Lexan XL10 (adhesion tested to treated side)
2	1 day water	15 days	SilPruf SCS2000 / SS4179	52.0	100	GE Lexan XL10 (adhesion tested to treated side)
2	7 day water	21 days	SilPruf SCS2000 / SS4179	49.0	100	GE Lexan XL10 (adhesion tested to treated side)
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	33.9	100	GE Lexan XL10 (adhesion tested to treated side)
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	41.7	100	GE Lexan XL10 (adhesion tested to treated side)
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	47.8	100	GE Lexan XL10 (adhesion tested to treated side)
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	33.1	100	GE Lexan XL10 (adhesion tested to treated side)
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	36.4	100	GE Lexan XL10 (adhesion tested to treated side)
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	38.1	100	GE Lexan XL10 (adhesion tested to treated side)
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	66.7	100	GE Lexan MR10 (adhesion tested to treated side)
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	60.2	100	GE Lexan MR10 (adhesion tested to treated side)
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	73.5	100	GE Lexan MR10 (adhesion tested to treated side)
2	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	81.3	100	GE Lexan MR10 (adhesion tested to treated side)
2	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	48.2	100	GE Lexan MR10 (adhesion tested to treated side)
2	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	87.2	100	GE Lexan MR10 (adhesion tested to treated side)
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	44.8	100	GE Lexan MR10 (adhesion tested to treated side)
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	47.2	100	GE Lexan MR10 (adhesion tested to treated side)
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	49.4	100	GE Lexan MR10 (adhesion tested to treated side)
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	37.1	100	GE Lexan MR10 (adhesion tested to treated side)
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	42.4	100	GE Lexan MR10 (adhesion tested to treated side)
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	46.3	100	GE Lexan MR10 (adhesion tested to treated side)
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	71.6	100	GE Lexan MR15 (adhesion tested to treated side)
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	73.7	100	GE Lexan MR15 (adhesion tested to treated side)
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	71.8	100	GE Lexan MR15 (adhesion tested to treated side)
2	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	56.3	100	GE Lexan MR15 (adhesion tested to treated side)
2	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	76.1	100	GE Lexan MR15 (adhesion tested to treated side)
2	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	77.8	100	GE Lexan MR15 (adhesion tested to treated side)
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	32.4	100	GE Lexan MR15 (adhesion tested to treated side)
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	41.1	100	GE Lexan MR15 (adhesion tested to treated side)
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	37.0	100	GE Lexan MR15 (adhesion tested to treated side)
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	33.9	100	GE Lexan MR15 (adhesion tested to treated side)
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	34.2	100	GE Lexan MR15 (adhesion tested to treated side)
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	28.0	100	GE Lexan MR15 (adhesion tested to treated side)

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Project: Adhesion Study to Sheet Materials

Type of Test: Peel Adhesion per ASTM C794 protocol

Substrate: Polycarbonate - **GE Plastics Lexan 9034** (untreated or "plain" polycarbonate)

Sample No.	Cure Condition	Cure Time (days)	Sealant / Prep	Force (lbs/inch)	% Adh.	Comments
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	46.8	100	Ineos <i>Lucite</i> acrylic sheet
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	52.3	100	Ineos <i>Lucite</i> acrylic sheet
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	52.5	100	Ineos <i>Lucite</i> acrylic sheet
2	RT Cure	14 days	SilPruf SCS2000 / Novus Wipe	48.1	100	Ineos <i>Lucite</i> acrylic sheet
2	1 day water	15 days	SilPruf SCS2000 / Novus Wipe	49.4	100	Ineos <i>Lucite</i> acrylic sheet
2	7 day water	21 days	SilPruf SCS2000 / Novus Wipe	47.9	60	Ineos <i>Lucite</i> acrylic sheet
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	42.3	100	Ineos <i>Lucite</i> acrylic sheet
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	49.0	100	Ineos <i>Lucite</i> acrylic sheet
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	52.4	100	Ineos <i>Lucite</i> acrylic sheet
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	46.6	100	Ineos <i>Lucite</i> acrylic sheet
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	43.3	100	Ineos <i>Lucite</i> acrylic sheet
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	53.5	100	Ineos <i>Lucite</i> acrylic sheet
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	48.7	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	54.2	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	53.3	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
2	RT Cure	14 days	SilPruf SCS2000 / Novus Wipe	40.7	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
2	1 day water	15 days	SilPruf SCS2000 / Novus Wipe	55.6	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
2	7 day water	21 days	SilPruf SCS2000 / Novus Wipe	51.6	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	37.8	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	41.2	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	46.5	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	32.5	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	45.0	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	38.0	100	<i>Plexiglass</i> Acrylic Sheet (by Atofina Chemicals)
1	RT Cure	28 days	SilPruf SCS2000 / IPA Wipe	57.9	100	PVC sheet, grey color @ 1/8" thickness
1	1 day water	29 days	SilPruf SCS2000 / IPA Wipe	53.0	100	PVC sheet, grey color @ 1/8" thickness
1	7 day water	35 days	SilPruf SCS2000 / IPA Wipe	61.4	100	PVC sheet, grey color @ 1/8" thickness
2	RT Cure	28 days	SilPruf SCS2000 / IPA Wipe	54.0	100	PVC sheet, grey color @ 1/8" thickness
2	1 day water	29 days	SilPruf SCS2000 / IPA Wipe	60.7	100	PVC sheet, grey color @ 1/8" thickness
2	7 day water	35 days	SilPruf SCS2000 / IPA Wipe	49.0	100	PVC sheet, grey color @ 1/8" thickness
1	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	51.4	100	PVC sheet, grey color @ 1/8" thickness
1	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	45.0	100	PVC sheet, grey color @ 1/8" thickness
1	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	47.3	100	PVC sheet, grey color @ 1/8" thickness
2	RT Cure	14 days	SilPruf LM SCS2700 / IPA Wipe	42.0	100	PVC sheet, grey color @ 1/8" thickness
2	1 day water	15 days	SilPruf LM SCS2700 / IPA Wipe	42.9	100	PVC sheet, grey color @ 1/8" thickness
2	7 day water	21 days	SilPruf LM SCS2700 / IPA Wipe	56.0	100	PVC sheet, grey color @ 1/8" thickness
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	59.1	100	Sintra (by Alcan), white
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	62.2	100	Sintra (by Alcan), white
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	64.4	100	Sintra (by Alcan), white
1	RT Cure	14 days	SilPruf SCS2000 / IPA Wipe	80.3	100	PETG (co-polyester), Eastman-Kodak
1	1 day water	15 days	SilPruf SCS2000 / IPA Wipe	61.0	100	PETG (co-polyester), Eastman-Kodak
1	7 day water	21 days	SilPruf SCS2000 / IPA Wipe	53.9	100	PETG (co-polyester), Eastman-Kodak