

3M™ Sun Control Window Film





Silver P18 (P18ARL)

Technical Data

Product Benefits

- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Silver P18								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	P18	1/4" tint	P18	Dual 1/4" Clear	P18	Dual 1/4" tint	P18
Solar Heat Gain Coefficient	0.82	0.23	0.63	0.27	0.70	0.33	0.51	0.27
Visible Light Transmitted	89%	17%	47%	10%	79%	15%	47%	9%
Visible Light Reflected Interior	9%	58%	9%	58%	15%	58%	13%	58%
Visible Light Reflected Exterior	8%	56%	13%	23%	15%	55%	8%	23%
U Value	1.03	0.93	1.03	0.93	0.47	0.45	0.47	0.45
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	77%	37%	74%	30%	67%	49%	73%
Glare Reduction	NA	81%	NA	79%	NA	80%	NA	81%
Heat Loss Reduction	NA	9%	NA	9%	NA	5%	NA	5%
Solar Heat Reduction	NA	72%	NA	58%	NA	53%	NA	47%

Important:

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3M™ Sun Control Window Film





Silver 15 Exterior (RE15SIARXL)

Technical Data

Product Benefits

- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Improves comfort by reducing excessive solar heat.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Silver 15 External								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Silver 15 External	1/4" tint	Silver 15 External	Dual 1/4" Clear	Silver 15 External	Dual 1/4" tint	Silver 15 External
Solar Heat Gain Coefficient	0.82	0.19	0.63	0.16	0.70	0.14	0.51	0.11
Visible Light Transmitted	89%	17%	47%	10%	79%	15%	47%	9%
Visible Light Reflected Interior	9%	56%	9%	23%	15%	54%	13%	27%
Visible Light Reflected Exterior	8%	61%	13%	61%	15%	61%	8%	61%
U Value	1.03	1.02	1.03	1.02	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	81%	37%	84%	30%	86%	49%	89%
Glare Reduction	NA	81%	NA	79%	NA	81%	NA	81%
Heat Loss Reduction	NA	0%	NA	0%	NA	0%	NA	0%
Solar Heat Reduction	NA	77%	NA	75%	NA	79%	NA	78%

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

Bronze 20 Exterior (RE20BRARXL)

Technical Data

Product Benefits

- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

<u>Bronze 20</u> <u>External</u>								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Bronze 20 External	1/4" tint	Bronze 20 External	Dual 1/4" Clear	Bronze 20 External	Dual 1/4" tint	Bronze 20 External
Solar Heat Gain Coefficient	0.82	0.22	0.63	0.19	0.70	0.17	0.51	0.13
Visible Light Transmitted	89%	23%	47%	14%	79%	21%	47%	12%
Visible Light Reflected Interior	9%	33%	9%	15%	15%	35%	13%	20%
Visible Light Reflected Exterior	8%	32%	13%	32%	15%	33%	8%	32%
U Value	1.03	1.02	1.03	1.02	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	78%	37%	81%	30%	84%	49%	87%
Glare Reduction	NA	74%	NA	71%	NA	73%	NA	74%
Heat Loss Reduction	NA	0%	NA	0%	NA	0%	NA	0%
Solar Heat Reduction	NA	73%	NA	70%	NA	76%	NA	75%

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3M™ Sun Control Window Film





Silver 35 Exterior (RE35SIARXL)

Technical Data

Product Benefits

- Reduces air conditioning costs.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

<u>Silver 35</u> <u>External</u>								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Silver 35 External	1/4" tint	Silver 35 External	Dual 1/4" Clear	Silver 35 External	Dual 1/4" tint	Silver 35 External
Solar Heat Gain Coefficient	0.82	0.36	0.63	0.30	0.70	0.29	0.51	0.22
Visible Light Transmitted	89%	35%	47%	21%	79%	32%	47%	19%
Visible Light Reflected Interior	9%	36%	9%	16%	15%	37%	13%	21%
Visible Light Reflected Exterior	8%	35%	13%	35%	15%	36%	8%	35%
U Value	1.03	1.02	1.03	1.02	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	64%	37%	70%	30%	71%	49%	78%
Glare Reduction	NA	60%	NA	56%	NA	59%	NA	60%
Heat Loss Reduction	NA	1%	NA	1%	NA	0%	NA	0%
Solar Heat Reduction	NA	56%	NA	53%	NA	59%	NA	57%

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3M™ Sun Control Window Film





Prestige Series PR 40

Technical Data

Product Benefits

- High Visible Light Transmission, High Clarity, Competitive Total Solar Energy Rejection
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

PR40								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	PR40	1/4" tint	PR40	Dual 1/4" Clear	PR40	Dual 1/4" tint	PR40
Solar Heat Gain Coefficient	0.82	0.40	0.63	0.37	0.70	0.51	0.51	0.45
Visible Light Transmitted	89%	39%	47%	24%	79%	35%	47%	13%
Visible Light Reflected Interior	9%	7%	9%	6%	15%	8%	13%	6%
Visible Light Reflected Exterior	8%	7%	13%	5%	15%	14%	8%	8%
U Value	1.03	0.99	1.03	0.99	0.47	0.47	0.47	0.47
UV Block	38%	99.9%	NA	99.9%	NA	99.9%	NA	99.9%
Total Solar Energy Rejected	19%	60%	37%	63%	30%	49%	49%	55%
Glare Reduction	NA	55%	NA	50%	NA	55%	NA	73%
Heat Loss Reduction	NA	3%	NA	3%	NA	2%	NA	2%
Solar Heat Reduction	NA	50%	NA	41%	NA	27%	NA	11%

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
Prestige Series PR 50

Technical Data

Product Benefits

- High Visible Light Transmission, High Clarity, Competitive Total Solar Energy Rejection
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

PR50								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	PR50	1/4" tint	PR50	Dual 1/4" Clear	PR50	Dual 1/4" tint	PR50
Solar Heat Gain Coefficient	0.82	0.44	0.63	0.39	0.70	0.53	0.51	0.46
Visible Light Transmitted	89%	50%	47%	30%	79%	45%	47%	16%
Visible Light Reflected Interior	9%	7%	9%	6%	15%	9%	13%	7%
Visible Light Reflected Exterior	8%	8%	13%	6%	15%	15%	8%	8%
U Value	1.03	0.99	1.03	0.99	0.47	0.47	0.47	0.47
UV Block	38%	99.9%	NA	99.9%	NA	99.9%	NA	99.9%
Total Solar Energy Rejected	19%	56%	37%	61%	30%	47%	49%	54%
Glare Reduction	NA	44%	NA	37%	NA	44%	NA	66%
Heat Loss Reduction	NA	3%	NA	3%	NA	2%	NA	2%
Solar Heat Reduction	NA	46%	NA	38%	NA	25%	NA	9%

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3M™ Sun Control Window Film





Prestige Series PR 60

Technical Data

Product Benefits

- High Visible Light Transmission, High Clarity, Competitive Total Solar Energy Rejection
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

PR60								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	PR60	1/4" tint	PR60	Dual 1/4" Clear	PR60	Dual 1/4" tint	PR60
Solar Heat Gain Coefficient	0.82	0.47	0.63	0.41	0.70	0.54	0.51	0.40
Visible Light Transmitted	89%	60%	47%	36%	79%	54%	47%	19%
Visible Light Reflected Interior	9%	8%	9%	7%	15%	11%	13%	7%
Visible Light Reflected Exterior	8%	8%	13%	6%	15%	15%	8%	8%
U Value	1.03	0.99	1.03	0.99	0.47	0.47	0.47	0.47
UV Block	38%	99.9%	NA	99.9%	NA	99.9%	NA	99.9%
Total Solar Energy Rejected	19%	53%	37%	59%	30%	46%	49%	60%
Glare Reduction	NA	32%	NA	23%	NA	32%	NA	59%
Heat Loss Reduction	NA	3%	NA	3%	NA	2%	NA	2%
Solar Heat Reduction	NA	42%	NA	34%	NA	22%	NA	21%

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
Prestige Series PR 70

Technical Data

Product Benefits

- High Visible Light Transmission, High Clarity, Competitive Total Solar Energy Rejection
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

PR70								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	PR70	1/4" tint	PR70	Dual 1/4" Clear	PR70	Dual 1/4" tint	PR70
Solar Heat Gain Coefficient	0.82	0.50	0.63	0.43	0.70	0.56	0.51	0.40
Visible Light Transmitted	89%	69%	47%	42%	79%	62%	47%	22%
Visible Light Reflected Interior	9%	9%	9%	7%	15%	13%	13%	8%
Visible Light Reflected Exterior	8%	9%	13%	6%	15%	15%	8%	8%
U Value	1.03	0.99	1.03	0.99	0.47	0.47	0.47	0.47
UV Block	38%	99.9%	NA	99.9%	NA	99.9%	NA	99.9%
Total Solar Energy Rejected	19%	50%	37%	57%	30%	44%	49%	60%
Glare Reduction	NA	22%	NA	12%	NA	22%	NA	53%
Heat Loss Reduction	NA	3%	NA	3%	NA	2%	NA	2%
Solar Heat Reduction	NA	38%	NA	31%	NA	21%	NA	20%

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3M™ Sun Control Window Film - Night Vision Series





NV 15

Technical Data

Product Benefits

- Warm tones complement natural light and defend against solar rays.
- A warm natural hue invites warmth and beauty to any room.
- Low interior and exterior reflectivity, especially at night.
- Great heat rejection for dual pane windows.
- 3M technology enhances color stability.
- Reduce air conditioning costs and stay cooler by reducing excessive solar heat especially in hot sunny climates.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

NV15								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	NV15	1/4" tint	NV15	Dual 1/4" Clear	NV15	Dual 1/4" tint	NV15
Solar Heat Gain Coefficient	0.82	0.29	0.63	0.31	0.70	0.40	0.51	0.32
Visible Light Transmitted	89%	15%	47%	9%	79%	14%	47%	8%
Visible Light Reflected Interior	9%	11%	9%	11%	15%	11%	13%	11%
Visible Light Reflected Exterior	8%	39%	13%	17%	15%	40%	8%	17%
U Value	1.03	0.98	1.03	0.98	0.47	0.46	0.47	0.46
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	71%	37%	70%	30%	60%	49%	68%
Glare Reduction	NA	83%	NA	80%	NA	82%	NA	83%
Heat Loss Reduction	NA	4%	NA	4%	NA	3%	NA	3%
Solar Heat Reduction	NA	64%	NA	51%	NA	43%	NA	37%

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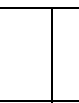


NV 25

Technical Data

Product Benefits

- Warm tones complement natural light and defend against solar rays.
- A warm natural hue invites warmth and beauty to any room.
- Low interior and exterior reflectivity, especially at night.
- Great heat rejection for dual pane windows.
- 3M technology enhances color stability.
- Reduce air conditioning costs and stay cooler by reducing excessive solar heat especially in hot sunny climates.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

NV25								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	NV25	1/4" tint	NV25	Dual 1/4" Clear	NV25	Dual 1/4" tint	NV25
Solar Heat Gain Coefficient	0.82	0.40	0.63	0.38	0.70	0.49	0.51	0.37
Visible Light Transmitted	89%	24%	47%	14%	79%	22%	47%	13%
Visible Light Reflected Interior	9%	7%	9%	7%	15%	8%	13%	8%
Visible Light Reflected Exterior	8%	20%	13%	10%	15%	24%	8%	12%
U Value	1.03	1.00	1.03	1.00	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	60%	37%	63%	30%	51%	49%	63%
Glare Reduction	NA	73%	NA	70%	NA	72%	NA	73%
Heat Loss Reduction	NA	2%	NA	2%	NA	1%	NA	1%
Solar Heat Reduction	NA	51%	NA	40%	NA	29%	NA	27%

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


NV 35

Technical Data

Product Benefits

- Warm tones complement natural light and defend against solar rays.
- A warm natural hue invites warmth and beauty to any room.
- Low interior and exterior reflectivity, especially at night.
- Great heat rejection for dual pane windows.
- 3M technology enhances color stability.
- Reduce air conditioning costs and stay cooler by reducing excessive solar heat especially in hot sunny climates.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

NV35								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	NV35	1/4" tint	NV35	Dual 1/4" Clear	NV35	Dual 1/4" tint	NV35
Solar Heat Gain Coefficient	0.82	0.49	0.63	0.43	0.70	0.55	0.51	0.42
Visible Light Transmitted	89%	36%	47%	22%	79%	32%	47%	19%
Visible Light Reflected Interior	9%	7%	9%	6%	15%	8%	13%	8%
Visible Light Reflected Exterior	8%	13%	13%	8%	15%	19%	8%	10%
U Value	1.03	1.03	1.03	1.03	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	51%	37%	57%	30%	45%	49%	59%
Glare Reduction	NA	59%	NA	54%	NA	60%	NA	60%
Heat Loss Reduction	NA	0%	NA	0%	NA	1%	NA	1%
Solar Heat Reduction	NA	40%	NA	32%	NA	21%	NA	18%

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


Nickel 50 (RE50NIARL)

Technical Data

Product Benefits

- Stay cooler by reducing excessive heat in warmer months.
- Maintains more natural appearance.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Nickel 50								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Nickel 50	1/4" tint	Nickel 50	Dual 1/4" Clear	Nickel 50	Dual 1/4" tint	Nickel 50
Solar Heat Gain Coefficient	0.82	0.44	0.63	0.38	0.70	0.48	0.51	0.36
Visible Light Transmitted	89%	50%	47%	30%	79%	45%	47%	27%
Visible Light Reflected Interior	9%	23%	9%	22%	15%	25%	13%	24%
Visible Light Reflected Exterior	8%	24%	13%	12%	15%	28%	8%	13%
U Value	1.03	0.92	1.03	0.92	0.47	0.45	0.47	0.45
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	56%	37%	62%	30%	52%	49%	64%
Glare Reduction	NA	44%	NA	37%	NA	43%	NA	43%
Heat Loss Reduction	NA	10%	NA	10%	NA	6%	NA	6%
Solar Heat Reduction	NA	46%	NA	39%	NA	31%	NA	28%

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3M™ Safety & Security Window Film Ultra S150 (SCLARL150)

Technical Data






Product Benefits

- Increase personal safety from flying or broken glass.
- Increases protection from windstorms, hurricanes, blasts, and earthquakes.
- Deters smash and grab theft.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Ultra S150 (SCLARL150)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	2%	1%	4%	4%
Heat Loss Reduction	0%	0%	0%	0%
Glare Reduction	1%	2%	1%	2%
UV Blocked	98%	99%	99%	99%
Total Solar Energy Rejected	2%	1%	4%	4%

Technical Data

Glass Type 	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	88%	0.84	1.06
	Ultra S150 (SCLARL 150)	0.92	11%	87%	0.87	1.06
	None	0.69	5%	50%	0.84	1.06
	Ultra S150 (SCLARL 150)	0.68	7%	49%	0.87	1.06
	None	0.81	14%	78%	0.84	0.50
	Ultra S150 (SCLARL 150)	0.78	17%	77%	0.87	0.50
	None	0.55	8%	45%	0.84	0.50
	Ultra S150 (SCLARL 150)	0.53	8%	47%	0.87	0.50

Important:

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3M™ Safety & Security Window Film Ultra S400 (SCLARL400)

Technical Data



Product Benefits

- Increase personal safety from flying or broken glass.
- Increases protection from windstorms, hurricanes, blasts, and earthquakes.
- Deters smash and grab theft.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Ultra S400 (SCLARL400)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	3%	1%	2%	0%
Heat Loss Reduction	0%	0%	0%	0%
Glare Reduction	2%	4%	0%	7%
UV Blocked	98%	99%	99%	99%
Total Solar Energy Rejected	3%	1%	2%	0%

Technical Data

Glass Type	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	88%	0.84	1.06
	Ultra S400 (SCLARL400)	0.91	11%	86%	0.87	1.09
	None	0.69	5%	50%	0.84	1.06
	Ultra S400 (SCLARL400)	0.68	6%	48%	0.87	1.09
	None	0.81	14%	78%	0.84	0.50
	Ultra S400 (SCLARL400)	0.97	18%	75%	0.87	0.50
	None	0.55	8%	45%	0.84	0.50
	Ultra S400 (SCLARL400)	0.55	8%	42%	0.87	0.50

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3M™ Safety & Security Window Film Ultra S600 (Ultra600)

Technical Data


Product Benefits

- Increase personal safety from flying or broken glass.
- Increases protection from windstorms, hurricanes, blasts, and earthquakes.
- Deters smash and grab theft and forced entry burglary.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Ultra S600 (Ultra600)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	6%	1%	2%	0%
Heat Loss Reduction	0%	0%	0%	0%
Glare Reduction	2%	6%	6%	8%
UV Blocked	99%	99%	99%	99%
Total Solar Energy Rejected	6%	1%	2%	0%

Technical Data

Glass Type 	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	88%	0.84	1.06
	Ultra S600 (Ultra600)	0.90	10%	84%	0.89	1.10
	None	0.69	5%	50%	0.84	1.06
	Ultra S600 (Ultra 600)	0.68	6%	47%	0.89	1.10
	None	0.81	14%	78%	0.84	0.50
	Ultra S600 (Ultra 600)	0.79	18%	73%	0.89	0.50
	None	0.55	8%	45%	0.84	0.50
	Ultra S600 (Ultra 600)	0.55	8%	41%	0.89	0.50

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3M™ Safety & Security Window Film





Prestige Series Ultra PR S50

Technical Data

Product Benefits

- Savings on heating costs.
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Increases protection from windstorms, blasts and earthquakes.
- Deter smash and grab theft.
- Low interior and exterior reflectivity, especially at night.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Ultra PRS50								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Ultra PRS50	1/4" tint	Ultra PRS50	Dual 1/4" Clear	Ultra PRS50	Dual 1/4" tint	Ultra PRS50
Solar Heat Gain Coefficient	0.82	0.44	0.63	0.40	0.70	0.53	0.51	0.40
Visible Light Transmitted	89%	50%	47%	30%	79%	44%	47%	27%
Visible Light Reflected Interior	9%	8%	9%	7%	15%	10%	13%	9%
Visible Light Reflected Exterior	8%	9%	13%	6%	15%	15%	8%	9%
U Value	1.03	1.02	1.03	1.02	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	56%	37%	60%	30%	47%	49%	60%
Glare Reduction	NA	44%	NA	37%	NA	44%	NA	44%
Heat Loss Reduction	NA	1%	NA	1%	NA	1%	NA	1%
Solar Heat Reduction	NA	46%	NA	37%	NA	25%	NA	21%

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3M™ Series Safety & Security Window Film





Prestige Series Ultra PR S70

Technical Data

Product Benefits

- Savings on heating costs.
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Increases protection from windstorms, blasts and earthquakes.
- Deter smash and grab theft.
- Low interior and exterior reflectivity, especially at night.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Ultra PRS70								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Ultra PRS70	1/4" tint	Ultra PRS70	Dual 1/4" Clear	Ultra PRS70	Dual 1/4" tint	Ultra PRS70
Solar Heat Gain Coefficient	0.82	0.51	0.63	0.44	0.70	0.55	0.51	0.41
Visible Light Transmitted	89%	68%	47%	41%	79%	61%	47%	37%
Visible Light Reflected Interior	9%	11%	9%	10%	15%	15%	13%	14%
Visible Light Reflected Exterior	8%	12%	13%	7%	15%	18%	8%	9%
U Value	1.03	1.00	1.03	1.00	0.47	0.47	0.47	0.47
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	49%	37%	57%	30%	45%	49%	59%
Glare Reduction	NA	23%	NA	13%	NA	23%	NA	23%
Heat Loss Reduction	NA	2%	NA	2%	NA	1%	NA	1%
Solar Heat Reduction	NA	38%	NA	31%	NA	21%	NA	19%

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Ultra Silver S20 (S20SIAR400)

Technical Data

Product Benefits

- Deters smash and grab theft.
- Increase protection from windstorms, blasts, and earthquakes.
- Increase daytime privacy.
- Reduces air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduces glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Ultra Silver S20								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Ultra Silver S20	1/4" tint	Ultra Silver S20	Dual 1/4" Clear	Ultra Silver S20	Dual 1/4" tint	Ultra Silver S20
Solar Heat Gain Coefficient	0.82	0.23	0.63	0.28	0.70	0.33	0.51	0.27
Visible Light Transmitted	89%	17%	47%	9%	79%	15%	47%	9%
Visible Light Reflected Interior	9%	58%	9%	61%	15%	58%	13%	58%
Visible Light Reflected Exterior	8%	56%	13%	23%	15%	55%	8%	23%
U Value	1.03	0.93	1.03	0.98	0.47	0.45	0.47	0.45
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	77%	37%	72%	30%	67%	49%	73%
Glare Reduction	NA	81%	NA	81%	NA	80%	NA	81%
Heat Loss Reduction	NA	9%	NA	4%	NA	5%	NA	5%
Solar Heat Reduction	NA	72%	NA	56%	NA	53%	NA	47%

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Ultra Night Vision S25 (S25NVAR400)

Technical Data

Product Benefits

- Deters smash and grab theft.
- Increase protection from windstorms, blasts, and earthquakes.
- A warm, natural hue invites warmth and beauty to any room.
- Low interior and exterior reflectivity, especially at night.
- Great heat rejection for dual pane windows.
- Reduce air conditioning costs and stay cooler by reducing excessive solar heat.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Ultra NV S25								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Ultra NV S25	1/4" tint	Ultra NV S25	Dual 1/4" Clear	Ultra NV S25	Dual 1/4" tint	Ultra NV S25
Solar Heat Gain Coefficient	0.82	0.38	0.63	0.35	0.70	0.47	0.51	0.36
Visible Light Transmitted	89%	27%	47%	16%	79%	25%	47%	15%
Visible Light Reflected Interior	9%	12%	9%	12%	15%	13%	13%	13%
Visible Light Reflected Exterior	8%	23%	13%	11%	15%	27%	8%	13%
U Value	1.03	0.97	1.03	0.97	0.47	0.46	0.47	0.46
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	63%	37%	65%	30%	53%	49%	64%
Glare Reduction	NA	69%	NA	66%	NA	69%	NA	69%
Heat Loss Reduction	NA	6%	NA	6%	NA	3%	NA	3%
Solar Heat Reduction	NA	54%	NA	44%	NA	33%	NA	29%

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Ultra Neutral S35 (S35NEAR400)

Technical Data

Product Benefits

- Deters smash and grab theft.
- Increase protection from windstorms, blasts, and earthquakes.
- Increase daytime privacy.
- Reduce air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduce glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Ultra Neutral S35								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Ultra Neutral S35	1/4" tint	Ultra Neutral S35	Dual 1/4" Clear	Ultra Neutral S35	Dual 1/4" tint	Ultra Neutral S35
Solar Heat Gain Coefficient	0.82	0.44	0.63	0.39	0.70	0.51	0.51	0.39
Visible Light Transmitted	89%	36%	47%	21%	79%	32%	47%	19%
Visible Light Reflected Interior	9%	18%	9%	18%	15%	19%	13%	19%
Visible Light Reflected Exterior	8%	20%	13%	10%	15%	24%	8%	12%
U Value	1.03	0.99	1.03	0.99	0.47	0.46	0.47	0.46
UV Block	38%	99%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	56%	37%	61%	30%	49%	49%	61%
Glare Reduction	NA	60%	NA	55%	NA	60%	NA	60%
Heat Loss Reduction	NA	4%	NA	4%	NA	2%	NA	2%
Solar Heat Reduction	NA	46%	NA	38%	NA	27%	NA	23%

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
Ultra Neutral S50 (S50NEAR400)

Technical Data

Product Benefits

- Deters smash and grab theft.
- Increase protection from windstorms, blasts, and earthquakes.
- Increase daytime privacy.
- Reduce air conditioning costs.
- Stay cooler by reducing excessive heat in warmer months.
- Reduce glare and eye discomfort.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance & Technical Data

Ultra Neutral S50								
	Single Pane		Tinted		Double Pane		Double tinted	
Film	1/4" Clear	Ultra Neutral S50	1/4" tint	Ultra Neutral S50	Dual 1/4" Clear	Ultra Neutral S50	Dual 1/4" tint	Ultra Neutral S50
Solar Heat Gain Coefficient	0.82	0.56	0.63	0.47	0.70	0.59	0.51	0.44
Visible Light Transmitted	89%	52%	47%	30%	79%	46%	47%	28%
Visible Light Reflected Interior	9%	11%	9%	10%	15%	13%	13%	13%
Visible Light Reflected Exterior	8%	12%	13%	8%	15%	18%	8%	10%
U Value	1.03	1.03	1.03	1.03	0.47	0.48	0.47	0.48
UV Block	38%	98%	NA	99%	NA	99%	NA	99%
Total Solar Energy Rejected	19%	44%	37%	53%	30%	41%	49%	57%
Glare Reduction	NA	41%	NA	36%	NA	41%	NA	41%
Heat Loss Reduction	NA	0%	NA	0%	NA	0%	NA	0%
Solar Heat Reduction	NA	31%	NA	25%	NA	16%	NA	14%

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3M™ Safety & Security Window Film





Safety S40 (SH4CLARL)

Technical Data




Product Benefits

- Increase protection from windstorms, blasts, and earthquakes.
- Deters smash and grab theft.
- Reduce fading from UV light.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Safety S40 (SH4CLARL)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	4%	3%	2%	2%
Heat Loss Reduction	0%	0%	0%	0%
Glare Reduction	5%	4%	12%	8%
UV Blocked	98%	99%	99%	99%
Total Solar Energy Rejected	21%	38%	31%	50%

Technical Data

Glass Type	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	8%	88%	0.84
	Safety S40 (SH4CLARL)	0.90	9%	8%	88%	0.84
	None	0.69	5%	5%	50%	0.84
	Safety S40 (SH4CLARL)	0.71	6%	6%	53%	0.88
	None	0.81	14%	14%	78%	0.84
	Safety S40 (SH4CLARL)	0.79	15%	15%	78%	0.84
	None	0.55	8%	8%	45%	0.84
	Safety S40 (SH4CLARL)	0.58	9%	13%	47%	0.84

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3M™ Safety & Security Window Film





Safety S40 Exterior (SH4CLARXL)

Technical Data





Product Benefits

- Increase protection from windstorms, blasts, and earthquakes.
- Deters smash and grab theft.
- Reduce fading from UV light.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Safety S40 (SH4CLARL)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	4%	3%	2%	2%
Heat Loss Reduction	0%	0%	0%	0%
Glare Reduction	5%	4%	12%	8%
UV Blocked	98%	99%	99%	99%
Total Solar Energy Rejected	21%	38%	31%	50%

Technical Data

Glass Type	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	8%	88%	0.84
	Safety S40 (SH4CLARL)	0.90	9%	8%	88%	0.84
	None	0.69	5%	5%	50%	0.84
	Safety S40 (SH4CLARL)	0.71	6%	6%	53%	0.88
	None	0.81	14%	14%	78%	0.84
	Safety S40 (SH4CLARL)	0.79	15%	15%	78%	0.84
	None	0.55	8%	8%	45%	0.84
	Safety S40 (SH4CLARL)	0.58	9%	13%	47%	0.84

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3M™ Safety & Security Window Film





Safety S70 (SH7CLARL)

Technical Data






Product Benefits

- Increase protection from windstorms, blasts, and earthquakes.
- Deters smash and grab theft.
- Reduce fading from UV light.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Safety S70 (SH7CLARL)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	4%	3%	2%	2%
Heat Loss Reduction	0%	0%	0%	0%
Glare Reduction	2%	2%	4%	4%
UV Blocked	98%	99%	99%	99%
Total Solar Energy Rejected	21%	37%	30%	50%

Technical Data

Glass Type 	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	8%	88%	0.84
	Safety S70 (SH7CLARL)	0.90	NA	9%	86%	0.87
	None	0.69	5%	5%	50%	0.84
	Safety S70 (SH7CLARL)	0.67	NA	8%	49%	0.87
	None	0.81	14%	14%	78%	0.84
	Safety S70 (SH7CLARL)	0.79	NA	17%	75%	0.87
	None	0.55	8%	8%	45%	0.84
	Safety S70 (SH7CLARL)	0.54	NA	8%	43%	0.87

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3M™ Safety & Security Window Film





Safety S80 (SH8CLARL)

Technical Data






Product Benefits

- Increase protection from windstorms, blasts, and earthquakes.
- Deters smash and grab theft and forced entry burglaries.
- Reduce fading from UV light.
- Extend the life and vibrancy in the fabric of furniture and carpets.
- Reduces injury risk from flying glass.

Product Performance

Safety S80 (SH8CLARL)	Single Pane 	SP Factory Tint 	Double Pane 	DP Factory Tint 
Solar Heat Reduction	3%	1%	1%	2%
Heat Loss Reduction	2%	0%	0%	0%
Glare Reduction	2%	2%	3%	3%
UV Blocked	99%	99%	99%	99%
Total Solar Energy Rejected	21%	37%	30%	50%

Technical Data

Glass Type 	Applied Product	Shading Coefficient	Visible Light		Emissivity	"U" Value
			Reflected	Light Transmitted		
	None	0.94	8%	8%	88%	0.84
	Safety S80 (SH8CLARL)	0.91	9%	9%	87%	0.89
	None	0.69	5%	5%	50%	0.84
	Safety S80 (SH8CLARL)	0.72	6%	7%	52%	0.89
	None	0.81	14%	14%	78%	0.84
	Safety S80 (SH8CLARL)	0.80	15%	15%	77%	0.89
	None	0.55	8%	8%	45%	0.84
	Safety S80 (SH8CLARL)	0.58	9%	14%	46%	0.89

Important:

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3M™ Automotive Window Film

Color Stable 5



Technical Data

Product Benefits

- Lifetime warranty against color change**
- Distortion-free satellite transmission*
- Excellent heat rejection
- Low reflection
- Neutral black appearance
- Superior optical clarity
- Scratch-resistant coating
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance
- National lifetime manufacturer's warranty**

*Will not interfere with cellular phones, GPS, or satellite radio signals. **See lifetime warranty for full details. Ask dealer for warranty information.

Product Performance & Technical Data

CS5				
	Single Pane		Tinted	
Film	1/4" Clear	CS5	1/4" tint	CS5
Solar Heat Gain Coefficient	0.82	0.43	0.63	Application Not Recommended
Visible Light Transmitted	89%	9%	47%	
Visible Light Reflected Interior	9%	4%	9%	
Visible Light Reflected Exterior	8%	5%	13%	
U Value	1.03	1.03	1.03	
UV Block	38%	99%	NA	
Total Solar Energy Rejected	19%	57%	37%	
Glare Reduction	NA	90%	NA	
Heat Loss Reduction	NA	0%	NA	
Solar Heat Reduction	NA	47%	NA	

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3M™ Automotive Window Film

Color Stable 20



Technical Data

*Will not interfere with cellular phones, GPS, or satellite radio signals. **See lifetime warranty for full details. Ask dealer for warranty information.

Product Benefits

- Lifetime warranty against color change**
- Distortion-free satellite transmission*
- Excellent heat rejection
- Low reflection
- Neutral black appearance
- Superior optical clarity
- Scratch-resistant coating
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance
- National lifetime manufacturer's warranty**

Product Performance & Technical Data

<u>CS20</u>				
	Single Pane		Tinted	
Film	1/4" Clear	CS20	1/4" tint	CS20
Solar Heat Gain Coefficient	0.82	0.49	0.63	0.43
Visible Light Transmitted	89%	19%	47%	11%
Visible Light Reflected Interior	9%	5%	9%	4%
Visible Light Reflected Exterior	8%	5%	13%	5%
U Value	1.03	1.03	1.03	1.03
UV Block	38%	99%	NA	99%
Total Solar Energy Rejected	19%	51%	37%	57%
Glare Reduction	NA	79%	NA	76%
Heat Loss Reduction	NA	0%	NA	0%
Solar Heat Reduction	NA	39%	NA	32%

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3M™ Automotive Window Film

Color Stable 35



Technical Data

Product Benefits

- Lifetime warranty against color change**
- Distortion-free satellite transmission*
- Excellent heat rejection
- Low reflection
- Neutral black appearance
- Superior optical clarity
- Scratch-resistant coating
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance
- National lifetime manufacturer's warranty**

*Will not interfere with cellular phones, GPS, or satellite radio signals. **See lifetime warranty for full details. Ask dealer for warranty information.

Product Performance & Technical Data

CS35				
	Single Pane		Tinted	
Film	1/4" Clear	CS35	1/4" tint	CS35
Solar Heat Gain Coefficient	0.82	0.60	0.63	0.49
Visible Light Transmitted	89%	39%	47%	23%
Visible Light Reflected Interior	9%	6%	9%	6%
Visible Light Reflected Exterior	8%	5%	13%	5%
U Value	1.03	1.03	1.03	1.03
UV Block	38%	98%	NA	99%
Total Solar Energy Rejected	19%	40%	37%	51%
Glare Reduction	NA	56%	NA	51%
Heat Loss Reduction	NA	0%	NA	0%
Solar Heat Reduction	NA	27%	NA	21%

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3M™ Automotive Window Film

Color Stable 50



Technical Data

Product Benefits

- Lifetime warranty against color change**
- Distortion-free satellite transmission*
- Excellent heat rejection
- Low reflection
- Neutral black appearance
- Superior optical clarity
- Scratch-resistant coating
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance
- National lifetime manufacturer's warranty**

*Will not interfere with cellular phones, GPS, or satellite radio signals. **See lifetime warranty for full details. Ask dealer for warranty information.

Product Performance & Technical Data

CS50				
	Single Pane		Tinted	
Film	1/4" Clear	CS50	1/4" tint	CS50
Solar Heat Gain Coefficient	0.82	0.65	0.63	0.53
Visible Light Transmitted	89%	52%	47%	31%
Visible Light Reflected Interior	9%	7%	9%	6%
Visible Light Reflected Exterior	8%	5%	13%	5%
U Value	1.03	1.03	1.03	1.03
UV Block	38%	98%	NA	99%
Total Solar Energy Rejected	19%	35%	37%	47%
Glare Reduction	NA	42%	NA	34%
Heat Loss Reduction	NA	0%	NA	0%
Solar Heat Reduction	NA	20%	NA	16%

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3M™ Automotive Window Film



Black Chrome 10

Technical Data

Product Benefits

- Excellent heat rejection
- Reduce interior damage.
- Reduce your eyestrain.
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance

Product Performance & Technical Data

BC10				
	Single Pane		Tinted	
Film	1/4" Clear	BC10	1/4" tint	BC10
Solar Heat Gain Coefficient	0.82	0.28	0.63	0.29
Visible Light Transmitted	89%	10%	47%	6%
Visible Light Reflected Interior	9%	18%	9%	18%
Visible Light Reflected Exterior	8%	22%	13%	11%
U Value	1.03	0.97	1.03	0.97
UV Block	38%	99%	NA	99%
Total Solar Energy Rejected	19%	72%	37%	71%
Glare Reduction	NA	88%	NA	87%
Heat Loss Reduction	NA	6%	NA	6%
Solar Heat Reduction	NA	66%	NA	54%

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3M™ Automotive Window Film



Black Chrome 20

Technical Data

Product Benefits

- Excellent heat rejection
- Reduce interior damage.
- Reduce your eyestrain.
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance

Product Performance & Technical Data

<u>BC20</u>				
	Single Pane		Tinted	
Film	1/4" Clear	BC20	1/4" tint	BC20
Solar Heat Gain Coefficient	0.82	0.32	0.63	0.32
Visible Light Transmitted	89%	17%	47%	10%
Visible Light Reflected Interior	9%	25%	9%	25%
Visible Light Reflected Exterior	8%	20%	13%	10%
U Value	1.03	0.97	1.03	0.97
UV Block	38%	99%	NA	99%
Total Solar Energy Rejected	19%	68%	37%	68%
Glare Reduction	NA	81%	NA	79%
Heat Loss Reduction	NA	6%	NA	6%
Solar Heat Reduction	NA	60%	NA	50%

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3M™ Automotive Window Film



Black Chrome 35

Technical Data

Product Benefits

- Excellent heat rejection
- Reduce interior damage.
- Reduce your eyestrain.
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance

Product Performance & Technical Data

BC35				
	Single Pane		Tinted	
Film	1/4" Clear	BC35	1/4" tint	BC35
Solar Heat Gain Coefficient	0.82	0.47	0.63	0.41
Visible Light Transmitted	89%	36%	47%	21%
Visible Light Reflected Interior	9%	11%	9%	10%
Visible Light Reflected Exterior	8%	13%	13%	8%
U Value	1.03	0.97	1.03	0.97
UV Block	38%	99%	NA	99%
Total Solar Energy Rejected	19%	53%	37%	60%
Glare Reduction	NA	60%	NA	55%
Heat Loss Reduction	NA	6%	NA	6%
Solar Heat Reduction	NA	43%	NA	36%

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3M™ Automotive Window Film



Black Chrome 40

Technical Data

Product Benefits

- Excellent heat rejection
- Reduce interior damage.
- Reduce your eyestrain.
- Choice in degree of glare reduction
- Maximum UV protection
- Added shatter-resistance

Product Performance & Technical Data

BC40				
	Single Pane		Tinted	
Film	1/4" Clear	BC40	1/4" tint	BC40
Solar Heat Gain Coefficient	0.82	0.53	0.63	0.44
Visible Light Transmitted	89%	42%	47%	25%
Visible Light Reflected Interior	9%	8%	9%	8%
Visible Light Reflected Exterior	8%	9%	13%	6%
U Value	1.03	0.97	1.03	0.97
UV Block	38%	99%	NA	99%
Total Solar Energy Rejected	19%	47%	37%	56%
Glare Reduction	NA	53%	NA	47%
Heat Loss Reduction	NA	6%	NA	6%
Solar Heat Reduction	NA	35%	NA	29%

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