

3M™ Automotive Window Film



SAS 50 (4 mil)

Technical Data

Product Benefits

- Provides glass shatter protection
- Increased impact resistance for additional safety and security
- Helps protect valuable assets inside vehicle from damage and theft
- Metal-free design results in zero electronic interference
- Up to 99% UV protection
- Additional layer of privacy
- Reduces glare and interior fading

Product Performance & Technical Data

SAS 50 4M				
	Single Pane		Single Pane (Auto)	
Film	1/4" Clear	SAS 50 4M	1/4" Auto75	SAS 50 4M
Solar Heat Gain Coefficient	0.82	0.67	0.59	0.49
Visible Light Transmitted	89%	49%	75%	42%
Visible Light Reflected Interior	9%	6%	7%	6%
Visible Light Reflected Exterior	8%	6%	7%	5%
U Value	1.03	1.02	1.02	1.02
UV Block	38%	98%	NA	99%
Total Solar Energy Rejected	19%	33%	41%	51%
Glare Reduction	NA	44%	NA	44%
Heat Loss Reduction	NA	0%	NA	0%
Solar Heat Reduction	NA	18%	NA	17%

Film Properties* (nominal)

Product	Film Thickness	Tensile Strength	Break Strength	Elongation at Break	Abrasion Resistance
SAS 50 4M	0.004" (0.10 mm)	25,000 psi	100 lbs/in	>125 %	< 5% haze increase

*not for specification purposes

Impact Resistance for Burglary Resistant Glazing**

Product	Glass Substrate	Test Type	Impact Energy	# of Impacts
SAS 50 4M	3/16" (4.8mm) tempered	High Impact	88 J	1
		High Impact (after center punch)	27 J	1
		Multiple Impact	17 J	5

**modified method of UL 972, Burglarly Resisting Glazing Material

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

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Renewable Energy Division

St. Paul, MN 55144-1000
1-800-698-4595

www.3M.com/windowfilm

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