

# 3M™ Automotive Window Film

## SAS 35 (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 35 4M	Single Pane		Single Pane (Auto)	
	1/4" Clear	SAS 35 4M	1/4" Auto75	SAS 35 4M
Film				
Solar Heat Gain Coefficient	0.82	0.62	0.59	0.45
Visible Light Transmitted	89%	32%	75%	27%
Visible Light Reflected Interior	9%	5%	7%	5%
Visible Light Reflected Exterior	8%	5%	7%	4%
U Value	1.03	1.02	1.02	1.02
UV Block	38%	98%	NA	99%
Total Solar Energy Rejected	19%	38%	41%	55%
Glare Reduction	NA	64%	NA	65%
Heat Loss Reduction	NA	0%	NA	0%
Solar Heat Reduction	NA	24%	NA	24%

#### Film Properties\* (nominal)

Product	Film Thickness	Tensile Strength	Break Strength	Elongation at Break	Abrasion Resistance
SAS 35 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 35 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

#### Important:

The information provided in this report is believed to be reliable; however, due to the wide variety of intervening factors, 3M does not warrant that the results will necessarily be obtained. All details concerning product specifications and terms of sale are available from 3M.



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