

Product Benefits

- Good heat rejection capability
- 3M patented infused technology provides better durability, color retention and fade resistance
- Metal-free design with no electronic interference***
- Low visible light reflectivity value
- Up to 99.9% UV protection

Product Performance & Technical Data

	Film	Visible Light Transmittance	Visible Light Reflectance Exterior	Visible Light Reflectance Interior	UV Block	Total Solar Energy Rejected	Glare Reduction	Infrared Rejection****	Infrared Energy Rejection*****
Auto 75*	Auto 75 Glass	73%	7%	7%	67%	42%	NA	NA	NA
	Obsidian 5	5%	4%	3%	99.8%	60%	93%	8%	53%
	Obsidian 15	16%	5%	5%	99.9%	57%	79%	9%	53%
	Obsidian 25	22%	5%	5%	99.8%	55%	70%	9%	53%
	Obsidian 30	32%	5%	5%	99.6%	53%	56%	9%	53%
	Obsidian 35	37%	5%	5%	99.6%	52%	49%	9%	53%
	Obsidian 40	44%	6%	6%	99.5%	50%	39%	7%	53%
	Obsidian 50	51%	6%	6%	99.5%	48%	30%	9%	53%
Obsidian 70	64%	7%	7%	99.7%	45%	15%	7%	53%	

	Film	Visible Light Transmittance	Visible Light Reflectance Exterior	Visible Light Reflectance Interior	UV Block	Total Solar Energy Rejected	Glare Reduction	Infrared Rejection****	Infrared Energy Rejection*****
6mm Clear**	Clear Glass	89%	9%	8%	34%	19%	NA	NA	NA
	Obsidian 5	6%	4%	3%	99.6%	44%	93%	8%	24%
	Obsidian 15	19%	5%	5%	99.7%	40%	79%	9%	23%
	Obsidian 25	27%	6%	5%	99.6%	38%	69%	9%	24%
	Obsidian 30	39%	6%	5%	99.0%	35%	56%	9%	23%
	Obsidian 35	45%	6%	6%	99.0%	33%	49%	9%	23%
	Obsidian 40	54%	7%	6%	98.9%	31%	39%	7%	23%
	Obsidian 50	62%	7%	7%	98.9%	28%	30%	9%	23%
Obsidian 70	78%	8%	8%	99.3%	23%	12%	7%	23%	

* Data should be used as a reference tool for net VLT on ¼” (6mm) thick, automotive green glass of 73% VLT, and testing is in accordance to ANSI/NFRC 200 Procedure.

** Data is comparable to current auto industry method using a clear 89% VLT glass, and testing is in accordance to ANSI/NFRC 200 Procedure.

***Will not interfere with cell phones, GPS systems or satellite radio.

****IRR - IR Rejected over 900 – 1,000 nm. Film with liner measurement

*****IRER – The percent of solar infrared energy rejection over the wavelength range from 780 – 2,500 nm. IRER takes into account the transmitted and absorbed IR energy that will be reradiated into a car. Film is applied to glass

Commercial Solutions Division

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AIS

View the Article Information Sheet (AIS), document # 38-7652-1, for 3M Obsidian Series at [3M.com/SDS](https://www.3m.com/SDS).

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