

Product Benefits

- Great infrared heat reduction
- High total solar energy rejected
- 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
	Ceramic IR 5	5%	4%	4%	99.9%	66%	93%	95%	67%
	Ceramic IR 15	16%	5%	5%	99.9%	63%	78%	90%	67%
	Ceramic IR 25	25%	5%	5%	99.9%	61%	65%	90%	67%
	Ceramic IR 30	30%	5%	6%	99.9%	60%	59%	88%	67%
	Ceramic IR 35	37%	5%	6%	99.8%	58%	49%	85%	67%
	Ceramic IR 50	50%	6%	6%	99.8%	54%	32%	83%	66%
	Ceramic IR 70	64%	7%	7%	99.6%	51%	12%	78%	66%

	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
	Ceramic IR 5	6%	5%	5%	99.9%	63%	93%	95%	63%
	Ceramic IR 15	19%	5%	5%	99.8%	59%	78%	90%	61%
	Ceramic IR 25	31%	5%	5%	99.7%	57%	65%	90%	63%
	Ceramic IR 30	37%	6%	6%	99.9%	55%	58%	88%	62%
	Ceramic IR 35	45%	5%	6%	99.6%	52%	49%	85%	61%
	Ceramic IR 50	60%	7%	7%	99.6%	47%	32%	83%	60%
	Ceramic IR 70	78%	8%	8%	99.2%	41%	12%	78%	58%

* 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 # 41-3283-3, for 3M Ceramic IR Series at [3M.com/SDS](https://www.3m.com/SDS).

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Product Benefits

- Lifetime warranty against color change
- Great heat rejection
- Low reflection
- Neutral black appearance
- Will not interfere with RF signal
- Up to 99.9% UV protection

Product Performance & Technical Data

Auto 75*	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 Glass	73%	7%	7%	67%	42%	NA	NA	NA
	Color Stable 5	7%	4%	4%	99.0%	64%	94%	70%	63%
	Color Stable 20	15%	4%	4%	99.0%	60%	79%	58%	61%
	Color Stable 35	32%	5%	6%	98.0%	55%	56%	39%	58%
	Color Stable 50	43%	5%	6%	98.0%	51%	42%	27%	57%

6mm Clear**	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****
	Clear Glass	89%	9%	8%	34%	19%	NA	NA	NA
	Color Stable 5	9%	5%	4%	99.0%	57%	90%	70%	51%
	Color Stable 20	19%	5%	5%	99.0%	51%	79%	58%	44%
	Color Stable 35	39%	5%	6%	98.0%	40%	56%	39%	36%
	Color Stable 50	52%	5%	7%	98%	35%	42%	27%	33%

* 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.

***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

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AIS

View the Article Information Sheet (AIS), document # 20-3970-9, for 3M Color Stable Series at [3M.com/SDS](https://www.3m.com/SDS).

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Limited Remedy

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No Extension of Warranty

In the case of an approved warranty claim, the replacement Product will carry only the remaining term of the original warranty period.

Limitation of Liability

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Product Benefits

- Good heat rejection capability
- Less reflectivity than traditional window films
- Metal-free design with no electronic interference
 - Will not interfere with cell phones, GPS systems or satellite radio
- Up to 99% UV Protection

Product Performance & Technical Data

Auto 75*	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 Glass	73%	7%	7%	67%	42%	NA	NA	NA
	FXPM 5	5%	5%	5%	99%	59%	93%	21%	54%
	FXPM 15	14%	5%	5%	98%	58%	81%	22%	54%
	FXPM 25	20%	5%	5%	98%	56%	72%	22%	54%
	FXPM 30	27%	5%	5%	99%	55%	64%	22%	54%
	FXPM 35	33%	5%	5%	98%	53%	55%	22%	54%
	FXPM 40	37%	5%	5%	98%	52%	50%	21%	55%
	FXPM 55	48%	6%	6%	98%	49%	34%	19%	54%

6mm Clear**	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*****
	Clear Glass	89%	9%	8%	34%	19%	NA	NA	NA
	FXPM 5	7%	5%	5%	99%	44%	92%	21%	28%
	FXPM 15	17%	5%	5%	96%	42%	81%	22%	27%
	FXPM 25	24%	5%	5%	96%	40%	73%	22%	27%
	FXPM 30	32%	6%	5%	97%	38%	64%	22%	29%
	FXPM 35	40%	6%	6%	96%	36%	55%	22%	28%
	FXPM 40	44%	6%	6%	96%	35%	50%	21%	29%
	FXPM 55	58%	7%	7%	96%	31%	34%	19%	29%

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AIS

View the Article Information Sheet (AIS), document # 28-0414-4 for 3M FXPM Series at [3M.com/SDS](https://www.3m.com/SDS).

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