

# Architectural Film Performance Measurements



% Visible Light

% Total Solar Energy

Film	% Visible Light				% Total Solar Energy				Shading Coefficient (SC)	Solar Heat Gain Coefficient (SHGC)	U Factor	UV Rejection	Emissivity	Light to Solar Gain	Total Solar Energy Rejected (TSER)	IR Rejection*	Infrared Energy Rejection (IRER)
	Trans.	Reflected External	Reflected Internal	Glare Reduction	Trans.	Reflected External	Absorbed										
Nova 70	68%	21%	21%	24%	46%	26%	28%	0.62	0.54	0.95	≥ 99%	0.69	1.26	46%	78%	59%	
Solar Grey 55	57%	9%	10%	36%	50%	8%	42%	0.73	0.63	1.05	≥ 99%	0.89	0.90	37%	51%	38%	
Solar Grey 35	35%	17%	19%	61%	30%	14%	56%	0.55	0.47	1.03	≥ 99%	0.85	0.74	53%	71%	53%	
Solar Grey 20	19%	29%	31%	78%	17%	23%	60%	0.41	0.36	1.02	≥ 99%	0.83	0.54	64%	83%	64%	
Solar Bronze 35	35%	18%	24%	61%	24%	24%	52%	0.44	0.38	0.91	≥ 99%	0.62	0.90	62%	87%	68%	
Solar Bronze 20	23%	28%	33%	75%	14%	33%	53%	0.33	0.29	0.90	≥ 99%	0.61	0.78	71%	93%	76%	
Optivision® 45	45%	8%	7%	49%	47%	8%	45%	0.70	0.61	1.04	≥ 99%	0.87	0.74	39%	54%	38%	
Optivision® 35	37%	13%	8%	58%	38%	12%	50%	0.61	0.53	1.01	≥ 99%	0.81	0.70	47%	66%	47%	
Optivision® 25	27%	27%	14%	70%	26%	25%	50%	0.46	0.40	0.97	≥ 99%	0.74	0.67	60%	81%	61%	
Optivision® Reflective 15	14%	47%	21%	84%	13%	40%	47%	0.31	0.27	0.95	≥ 99%	0.69	0.52	73%	91%	74%	
Optivision® Reflective 5	8%	55%	15%	91%	9%	45%	46%	0.25	0.22	0.94	≥ 99%	0.69	0.36	78%	94%	77%	
Reflective Silver 40	44%	27%	27%	51%	31%	25%	44%	0.50	0.44	0.94	≥ 99%	0.68	1.00	56%	82%	63%	
Reflective Silver 30	30%	42%	42%	67%	21%	36%	43%	0.37	0.33	0.91	≥ 99%	0.62	0.91	68%	89%	72%	
Reflective Silver 20	19%	55%	56%	79%	13%	45%	42%	0.28	0.24	0.88	≥ 99%	0.58	0.78	76%	94%	78%	
Solar Grey Exterior 20	20%	31%	27%	78%	17%	30%	53%	0.39	0.34	1.02	≥ 99%	0.84	0.59	67%	84%	68%	
Solar Bronze Exterior 35	34%	24%	22%	62%	23%	37%	41%	0.41	0.35	1.02	≥ 99%	0.78	0.96	65%	88%	73%	
Solar Bronze Exterior 20	21%	34%	26%	77%	13%	51%	35%	0.28	0.24	1.02	≥ 99%	0.76	0.86	76%	94%	84%	
Reflective Silver Exterior 20	18%	65%	60%	80%	12%	66%	22%	0.22	0.19	1.02	≥ 99%	0.68	0.94	81%	95%	86%	
White Out	9%	56%	85%	90%	13%	42%	46%	0.31	0.27	1.02	≥ 99%	0.85	0.34	73%	80%	68%	
<b>Black Out</b>	<b>1%</b>	<b>6%</b>	<b>5%</b>	<b>99%</b>	<b>1%</b>	<b>5%</b>	<b>94%</b>	<b>0.37</b>	<b>0.32</b>	<b>1.03</b>	<b>≥ 99%</b>	<b>0.86</b>	<b>0.02</b>	<b>68%</b>	<b>99%</b>	<b>68%</b>	
Frost Matte	67%	18%	18%	25%	62%	14%	24%	0.80	0.69	1.02	≥ 99%	0.85	0.97	31%	38%	31%	
UV Gard 200	80%	8%	8%	10%	74%	8%	18%	0.92	0.80	1.03	≥ 99%	0.87	1.00	20%	26%	20%	
Amber 81	56%	7%	7%	38%	63%	7%	30%	0.83	0.72	1.03	≥ 99%	0.87	0.77	28%	25%	20%	
Blister Free 200	89%	8%	8%	0%	80%	8%	12%	0.96	0.84	1.03	39%	0.86	1.06	16%	26%	20%	

Read in accordance with National Fenestration Rating Council (NFRC) standards and calculated on single pane 6mm (1/4") clear glass.

\*IR Rejection is tested in the IR range of 780 to 2500 nanometers.

Reported values are typical properties and should not be used as a specification. Since only the user is aware of the specific conditions in which the product is to be used, it is the user's responsibility to determine whether the product is suitable for that intended use. If the specific conditions of use are critically dependent on any of the properties of the product, or if you need further information, contact Madico, Inc. or your local Madico film dealer.

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