

# Architectural Window Film Performance Data

Product	VLT		Visible Light Reflectance (Ext)		Visible Light Reflectance (Int)		Shading Coefficient (SC)		Solar Heat Gain Coefficient		Solar Absorption		Total Solar Energy Rejected		U-Value		UV Rejection	SIRR	Glare Reduction	Adhesive Type
	SP	DP	SP	DP	SP	DP	SP	DP	SP	DP	SP	DP	SP	DP	SP	DP	SP	SP		
<b>Dual Reflective</b>																				
Fusion 10	11%	10%	51%	51%	19%	19%	0.27	0.38	0.23	0.33	38%	34%	77%	67%	0.95	0.48	99%	86%	88%	DA
Fusion 20	20%	19%	39%	41%	21%	21%	0.36	0.47	0.31	0.40	41%	35%	69%	60%	0.96	0.48	99%	83%	78%	DA
Fusion 28	27%	24%	34%	37%	20%	21%	0.40	0.49	0.35	0.43	39%	34%	65%	57%	0.95	0.48	99%	73%	70%	DA
<b>Metallic</b>																				
Silver 18	17%	15%	56%	56%	56%	56%	0.23	0.36	0.20	0.31	34%	29%	80%	69%	1.04	0.48	99%	94%	80%	DA
Silver 30	31%	28%	42%	42%	42%	43%	0.37	0.46	0.32	0.40	36%	30%	68%	60%	1.04	0.49	99%	89%	62%	DA
Bronze 25	22%	19%	32%	32%	42%	42%	0.31	0.46	0.27	0.40	46%	44%	73%	60%	1.04	0.48	99%	93%	72%	DA
Bronze 40	39%	37%	17%	17%	27%	28%	0.47	0.58	0.41	0.50	44%	41%	59%	50%	1.04	0.48	99%	87%	56%	DA
Therm-X 30	30%	27%	47%	47%	46%	46%	0.32	0.28	0.28	0.35	23%	21%	72%	65%	0.93	0.46	99%	94%	65%	DA
Therm-X 70	70%	62%	18%	19%	17%	17%	0.53	0.53	0.53	0.52	12%	14%	47%	46%	0.93	0.46	99%	82%	21%	DA
<b>Ceramic</b>																				
Ceramic 20	20%		14%		14%	12%	0.39		0.34		70%		66%		1.05		99%	93%	77%	PSA
Ceramic 30	31%	29%	11%	12%	14%	11%	0.46	0.51	0.40	0.44	56%	54%	60%	56%	1.04	0.47	99%	86%	66%	PSA
Ceramic 35	35%	31%	15%	16%	17%	13%	0.47	0.50	0.41	0.43	54%	48%	59%	57%	1.04	0.48	99%	82%	61%	PSA
Ceramic 40	41%	39%	9%	12%	12%	10%	0.54	0.55	0.47	0.49	55%	44%	53%	50%	1.05	0.49	99%	78%	55%	PSA
Ceramic 45	43%	42%	13%	14%	15%	13%	0.53	0.52	0.46	0.45	50%	39%	54%	55%	1.04	0.48	99%	77%	53%	PSA
Ceramic 50	53%	48%	10%	11%	12%	10%	0.63	0.58	0.55	0.50	44%	36%	45%	50%	1.06	0.46	99%	66%	41%	PSA
Ceramic 60	61%	58%	9%	11%	11%	9%	0.71	0.72	0.61	0.63	38%	26%	39%	37%	1.06	0.49	99%	56%	33%	PSA
Ceramic 70	73%	62%	9%	14%	8%	7%	0.64	0.68	0.56	0.59	55%	19%	44%	41%	1.04	0.48	99%	85%	19%	PSA
Klar 85	82%	75%	10%	18%	10%	9%	0.83	0.83	0.72	0.62	29%	N/A	28%	38%	1.04	N/A	99%	50%	9%	PSA
<b>Select</b>																				
Drei	35%	31%	13%	12%	13%	11%	0.33	0.43	0.33	0.37	51%	43%	67%	63%	1.03	0.48	99%	94%	61%	PSA
Sech	61%	54%	8%	12%	10%	8%	0.56	0.43	0.49	0.52	38%	49%	51%	50%	0.99	0.48	99%	80%	32%	PSA
<b>Safety and Security</b>																				
Clear Shield 4mil	88%	88%	9%	9%			0.94	0.94	0.82	0.82			18%	18%			99%		2%	PSA
Clear Shield 8mil	88%	88%	9%	9%			0.93	0.93	0.81	0.81			19%	19%			99%		2%	PSA
Clear Shield 14mil	88%	88%	9%	9%			0.93	0.93	0.81	0.81			19%	19%			99%		2%	PSA
Neutral 35 8mil	36%	31%	15%	16%	16%	16%	0.51	0.51	0.45	0.45	49%	48%	55%	55%	0.96	0.96	99%	71%	60%	PSA
<b>Decorative</b>																				
Frost	73%		20%		26%		0.86		0.75				25%				99%		19%	PSA
Dusted Crystal	89%		12%		9%		0.98		0.85				15%				70%		2%	PSA
Whiteout	16%		83%		85%		0.29		0.25				75%				99%		82%	PSA
Blackout	0%		7%		9%		0.35		0.30		93%	95%	70%				99%		100%	PSA

Data was captured using the National Fenestration Rating Council's (NFRC) standard guidelines for window film solar performance measurement as measured on single pane, 1/8 inch (3mm), clear glass. Reported values are taken from representative product samples and are subject to normal manufacturing variances. Actual performance will vary based on a number of factors, including glass type and properties.