

# Solar Performance Neutral Appearance

Neutrals



## Benefits

- Great heat rejection helps provide energy savings and improved comfort
- Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- Helps reduce glare and eye discomfort
- Soft hues make this film very attractive in both residential and commercial settings
- Comprehensive warranty from 3M

- Energy Savings ★ ★
- Heat Rejection ★ ★
- Glare Reduction ★ ★
- Visible Reflection ★ ★

*In comparison to other 3M™ Sun Control Window Films*

Best ★★★★★ Better ★★★ Good ★★ Fair ★

## Valued Associations & Alliances



# Neutrals Case Study

Century Plaza Tower, Los Angeles, California

Climate Zone 3

11,000 windows installed with Neutral 35





Payback period — less than 8 months

Customer Issues:

- Energy costs
- Temperature imbalances



## Product Performance & Technical Data

Glass Type (All 1/4")	Film Type	Visible Light			Total Solar Energy Rejected	Solar Heat Gain Coefficient	U Value	Solar Heat Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
		Reflected (Interior)	Reflected (Exterior)	Transmitted							
 Clear	Neutral 20	19%	21%	15%	62%	0.38	0.99	53%	99%	83%	0.4
	Neutral 35	18%	20%	36%	56%	0.44	0.99	46%	99%	60%	0.8
	Neutral 50	11%	12%	52%	44%	0.56	1.03	31%	98%	41%	0.9
	Neutral 70	8%	9%	69%	32%	0.68	1.03	17%	98%	22%	1.0
 Tinted	Neutral 20	19%	10%	9%	68%	0.32	0.99	49%	99%	83%	0.3
	Neutral 35	18%	10%	21%	61%	0.39	0.99	38%	99%	60%	0.5
	Neutral 50	10%	7%	31%	53%	0.47	1.03	25%	99%	41%	0.7
	Neutral 70	7%	6%	42%	45%	0.55	1.03	13%	99%	22%	0.8
 Double Clear	Neutral 20	19%	25%	14%	54%	0.46	0.47	34%	99%	83%	0.3
	Neutral 35	19%	24%	32%	49%	0.51	0.46	27%	99%	60%	0.6
	Neutral 50	13%	18%	46%	41%	0.59	0.48	16%	99%	41%	0.8
	Neutral 70	12%	16%	62%	36%	0.64	0.48	8%	99%	22%	1.0
 Double Tinted	Neutral 20	19%	12%	8%	64%	0.36	0.47	30%	99%	83%	0.2
	Neutral 35	19%	12%	19%	61%	0.39	0.46	23%	99%	60%	0.5
	Neutral 50	13%	10%	28%	57%	0.44	0.48	14%	99%	41%	0.6
	Neutral 70	11%	9%	37%	53%	0.47	0.48	7%	99%	22%	0.8

## LEED Certification

Window films may be used towards the following LEED credits:

- SS-8
- MR 1.1-1.2
- EQ-7.1
- EQ-8.1-8.2
- EA-1
- MR 5.1-5.2
- EQ-7.2
- ID

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### 3M Renewable Energy Division Window Films

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