

**Protect Gard Window Films
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Product Specification
Automotive Films – High Performance Films

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Visible light reflectance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Coefficient	UV Light Reduction	Total solar Energy Rejected
HP Charcoal 5 %	1.5	5%	8%	22%	10%	68%	1.12	0.45	99%	59%
HP Charcoal 15 %	1.5	15%	8%	28%	9%	63%	1.11	0.51	99%	56%
HP Charcoal 20 %	1.5	20%	8%	28%	9%	63%	1.07	0.52	99%	55%
HP Charcoal 35 %	1.5	32%	8%	37%	9%	56%	1.15	0.56	99%	52%
HP Charcoal 39 %	1.5	38%	8%	40%	9%	51%	1.1	0.59	99%	49%
HP Charcoal 50 %	1.5	50%	8%	47%	8%	45%	1.15	0.61	99%	39%
HP Natural 35 %	2	38%	15%	35%	22%	43%	1.11	0.56	98%	52%
HP Graphite 5 %	1.5	4%	8%	24%	8%	68%	1.03	0.46	99%	59%
HP Graphite 15 %	1.5	15%	7%	33%	10%	57%	1.03	0.60	98%	54%
HP Graphite 35 %	1.5	36%	9%	42%	11%	47%	1.03	0.65	98%	46%
HP Graphite 50 %	1.5	54%	9%	52%	9%	39%	1.14	0.75	98%	37%
HP Bronze 15 %	1.5	15%	8%	28%	9%	63%	1.11	0.51	99%	56%
HP Bronze 35 %	1.5	32%	8%	37%	9%	56%	1.15	0.56	99%	52%

Product Specification
Automotive Films – Non Reflective Films

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Visible light reflectance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Coefficient	UV Light Reduction	Total solar Energy Rejected
NR Charcoal 5 %	1	5%	5%	48%	7%	45%	1.15	0.66	98%	43%
NR Charcoal 20 %	1	18%	6%	49%	7%	44%	1.12	0.70	99%	40%
NR Charcoal 35 %	1	35%	6%	52%	7%	41%	1.12	0.76	99%	38%
NR Charcoal 50 %	1	52%	6%	63%	6%	31%	1.14	0.82	99%	28%
NR Graphite 5 %	1	5%	5%	41%	5%	54%	1.5	0.66	99%	43%
NR Graphite 20 %	1	18%	6%	49%	6%	45%	1.12	0.70	99%	38%
NR Graphite 35 %	1	35%	8%	52%	7%	41%	1.12	0.76	99%	36%
NR Bronze 20 %	1	18%	5%	49%	7%	44%	1.15	0.71	99%	38%
NR Bronze 35 %	1	32%	8%	59%	8%	33%	1.12	0.79	99%	32%

**Product Specification
Automotive Films – All Metal Films (HP)**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Visible light reflectance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Coefficient	UV Light Reduction	Total solar Energy Rejected
HP Silver 15 %	1.5	15%	64%	14%	53%	33%	1.05	0.26	99%	74%
HP Silver 35 %	1.5	36%	37%	23%	31%	46%	1.10	0.40	99%	64%
HP Silver 50 %	1.5	54%	10%	51%	8%	41%	1.15	0.72	99%	37%

**Product Specification
Automotive Films – Premium Plus (PP)**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible Light Transmittance	Visible Light Reflectance	UV Light Reduction	Total Solar Energy Rejected
PP Premium Plus 20 %	1.5	17%	29%	99%	63%
PP Premium Plus 35 %	1.5	30%	18%	99%	52%
PP Premium Plus 50 %	1.5	50%	13%	99%	41%

**Product Specification
Automotive Films – XG NR Charcoal Black**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible Light Transmittance	UV Light Reduction	Total Solar Energy Rejected
XG NR Charcoal Black 5%	1	5%	98%	42%
XG NR Charcoal Black 20%	1	20%	98%	38%
XG NR Charcoal Black 35%	1	35%	98%	36%

Product Specification
Residential & Commercial Films - Super Kool High Heat Rejection Films

Super Kool 55% : - PS / SRC - 2 MIL (Heat Rejection 80%)

Thickness of Film (mil)	2 MIL
Visible light Transmittance	53%
Visible light reflectance	7%
Total Solar Transmittance	35%
Total Solar reflectance	7%
Total Solar Absorbance	58%
% Infrared Transmission	18%
% Infrared Reflectance	5%
% Infrared Absorbance	77%
U - Factor	1.04
Shading Coefficient	0.59
UV Light Reduction	99%
Total solar Energy Rejected	49%

**Product Specification
Residential & Commercial Films**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Visible light reflectance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Coefficient	UV Light Reduction	Total solar Energy Rejected
Silver 15 %	1.5	15%	64%	14%	53%	33%	1.05	0.26	99%	74%
Silver 35 %	1.5	36%	37%	23%	31%	46%	1.10	0.40	99%	64%
Silver 50 %	1.5	54%	10%	51%	8%	41%	1.15	0.72	99%	37%
Natural 20 %										
Natural 35 %	2	35%	27%	32%	19%	49%	1.08	0.52	98%	5%
Natural 50 %										

**Product Specification
Residential & Commercial Films**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Visible light reflectance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Coefficient	UV Light Reduction	Total solar Energy Rejected
R Bronze / Silver 15 %	1.5	8%	66%	9%	36%	55%	1.02	0.27	99%	77%
R Bronze / Silver 35 %										
R Gray / Silver 15 %	1.5	15%	23%	26%	15%	59%	1.04	0.49	98%	58%
R Gray / Silver 35 %	1.5	35%	27%	32%	19%	49%	1.08	0.52	98%	55%
R Gold / Silver 15 %	1.5	15%	-----	11%	51%	38%	0.94	0.25	99%	79%
R Blue / Silver 15 %	1.5	12%	-----	11%	39%	51%	0.94	0.29	99%	76%
R Green / Silver 15 %	1.5	15%	-----	15%	39%	48%	0.94	0.31	99%	73%

**Product Specification
Residential & Commercial Films
All Sputtered Metal Neutral Films**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Co-efficient	UV Light Reduction	Total solar Energy Rejected
Premium Neutral 20%	1.5	22%	23%	25%	52%	1.10	0.43	99%	63%
Premium Neutral 35%	1.5	36%	34%	17%	49%	1.10	0.55	99%	52%
Premium Neutral 50%	1.5	49%	47%	12%	41%	1.11	0.64	99%	42%

**Product Specification
Safety Films**

Solar Properties with mounted to 1/4 inch clear plate glass	Thickness of Film (mil)	Visible light Transmittance	Total Solar Transmittance	Total Solar reflectance	Total Solar Absorbance	U-Factor	Shading Co-efficient	UV Light Reduction	Total solar Energy Rejected
2 MIL Clear	2	87%	75%	7%	18%	1.05	0.93	98%	18%
4 MIL Clear	4	87%	74%	7%	19%	1.05	0.92	98%	20%
8 MIL Clear	8	86%	77%	9%	14%	1.10	0.94	99%	18%
11 MIL Clear	11	84%	77%	9%	14%	1.03	0.93	99%	19%
15 MIL Clear	15	83%	75%	10%	15%	1.03	0.93	99%	20%
4 MIL Charcoal 15%	4	15%	44%	8%	48%	1.03	0.66	99%	43%
4 MIL Charcoal 35%	4	36%	55%	8%	37%	1.03	0.76	99%	34%
4 MIL Charcoal 50%	4	51%	61%	8%	31%	1.03	0.81	99%	29%
4 MIL Silver 20%	4	17%	12%	56%	32%	0.99	0.24	99%	79%

Decorative Films	
Mini Blinds	PS
Venetian Blinds	PS
Bold Blocks	PS
Spectrum	PS
1 / 2 Blocks Black	PS
Regimental Bars	PS

Automotive Films – Color Films				
HP Blue 35 %	PS	SRC	1.5 MIL	2 PLY
HP Red 20 %	PS	SRC	1.5 MIL	2 PLY
HP Green 35 %	PS	SRC	1.5 MIL	2 PLY
HP yellow 35 %	PS	SRC	1.5 MIL	2 PLY
HP Ice Blue 15%	PS	SRC	1.5 MIL	2 PLY
NR Red 10 %	PS	SRC	1 MIL	1 PLY

Privacy Films			
White Frost / Opaque	PS	1.5 MIL	2 PLY
Black Frost	PS	1.5 MIL	2 PLY
Bronze Frost	PS	1.5 MIL	2 PLY
Green Frost	PS	1.5 MIL	2 PLY
Silver Frost	PS	1.5 MIL	2 PLY
Black out	PS	1 MIL	1 PLY