



GLOBAL WINDOW FILMS

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Automotive Solar Performance Specifications

HP Fusion - Solar Performance Specifications

	Solar Energy			Visible Light										
	T	A	R	T	A	R		UVR	SC	SHR	TSER	GR	E	U-Value
						Int	Ext							
HP Fusion 50	45	44	11	55	35	9	10	99	.67	33	43	39	.84	1.11
HP Fusion 35	27	55	18	36	49	11	15	99	.50	50	57	60	.86	1.12
HP Fusion 20	14	72	14	21	66	14	13	99	.40	60	65	77	.81	1.10

HP CHARCOAL - Solar Performance Specifications

	Solar Energy			Visible Light										
	T	A	R	T	A	R		UVR	SC	SHR	TSER	GR	E	U-Value
						Int	Ext							
HP Charcoal 50	54	39	7	54	39	7	7	99	.75	25	36	40	.87	1.13
HP Charcoal 45	48	44	8	44	49	7	7	99	.70	30	39	52	.85	1.12
HP Charcoal 40	45	48	7	39	55	7	6	99	.68	32	41	57	.85	1.12
HP Charcoal 30	43	51	6	28	68	5	4	99	.67	33	42	70	.88	1.13
HP Charcoal 20	32	59	9	20	75	9	5	99	.56	44	51	78	.79	1.09
HP Charcoal 10	29	63	8	10	86	8	4	99	.54	46	53	89	.81	1.10
HP Charcoal 5	21	68	12	5	90	5	5	99	.46	54	61	94	.73	1.06

NR QUICK DRY PLUS- Solar Performance Specifications

	Solar Energy			Visible Light										
	T	A	R	T	A	R		UVR	SC	SHR	TSER	GR	E	U-Value
						Int	Ext							
NR Charcoal QDP 50	60	35	5	48	48	4	4	99	.81	19	30	47	.89	1.12
NR Charcoal QDP 40	56	39	5	39	57	4	4	99	.76	24	33	57	.89	1.12
NR Charcoal QDP 30	54	40	6	30	66	4	4	99	.76	24	35	67	.89	1.14
NR Charcoal QDP 20	48	47	5	19	78	4	3	99	.71	29	39	79	.89	1.12
NR Charcoal QDP 5	41	54	5	4	93	4	3	99	.66	34	43	96	.89	1.12

NR QUICK DRY- Solar Performance Specifications

	Solar Energy			Visible Light										
	T	A	R	T	A	R		UVR	SC	SHR	TSER	GR	E	U-Value
						Int	Ext							
NR Charcoal QD 70	70	21	9	72	21	6	7	99	.87	13	24	20	.86	1.13
NR Charcoal QD 50	63	31	6	52	41	6	7	99	.82	18	28	42	.86	1.14
NR Charcoal QD 40	55	39	6	38	56	6	6	99	.76	24	34	58	.86	1.14
NR Charcoal QD 30	52	42	6	30	63	6	7	99	.73	27	37	67	.86	1.14
NR Charcoal QD 20	48	46	6	21	73	6	6	99	.71	29	39	77	.86	1.15
NR Charcoal QD 5	45	48	7	6	88	6	6	99	.67	33	40	93	.85	1.12



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Automotive Construction and Availability Specifications

HP Fusion - Construction and Availability

	110' Rolls	Adhesive	SRC	Mil	Ply
HP Fusion 50	20" 40" 60"	PS	Yes	1.5	2
HP Fusion 35	20" 40" 60"	PS	Yes	1.5	3
HP Fusion 20	20" 40" 60"	PS	Yes	1.5	3

HP CHARCOAL - Construction and Availability

	110' Rolls	Adhesive	SRC	Mil	Ply
HP Charcoal 50	20" 40" 60"	PS	Yes	1.5	2
HP Charcoal 45	20" 40" 60"	PS	Yes	1.5	2
HP Charcoal 40	20" 40" 60"	PS	Yes	1.5	2
HP Charcoal 30	20" 40" 60"	PS	Yes	1.5	2
HP Charcoal 20	20" 40" 60"	PS	Yes	1.5	2
HP Charcoal 10	20" 40" 60"	PS	Yes	1.5	2
HP Charcoal 5	20" 40" 60"	PS	Yes	1.5	2

NR QUICK DRY PLUS - Construction and Availability

	110' Rolls	Adhesive	SRC	Mil	Ply
NR Charcoal QDP 50	20" 40" 60"	PS	Yes	1.2	2
NR Charcoal QDP 40	20" 40" 60"	PS	Yes	1.2	2
NR Charcoal QDP 30	20" 40" 60"	PS	Yes	1.2	2
NR Charcoal QDP 20	20" 40" 60"	PS	Yes	1.2	2
NR Charcoal QDP 5	20" 40" 60"	PS	Yes	1.2	2

NR QUICK DRY - Construction and Availability

	110' Rolls	Adhesive	SRC	Mil	Ply
NR Charcoal QD 70	20" 40" 60"	PS	Yes	1	1
NR Charcoal QD 50	20" 40" 60"	PS	Yes	1	1
NR Charcoal QD 40	20" 40" 60"	PS	Yes	1	1
NR Charcoal QD 30	20" 40" 60"	PS	Yes	1	1
NR Charcoal QD 20	20" 40" 60"	PS	Yes	1	1
NR Charcoal QD 5	20" 40" 60"	PS	Yes	1	1



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Architectural Solar Performance Specifications

Estate - Solar Performance Specifications

	Solar Energy			Visible Light				UVR	SC	SHR	TSER	GR	E	U-Value
	T	A	R	T	A	R								
						Int	Ext							
Neutral 65	59	32	9	63	26	10	11	99	.79	21	31	30	.86	1.13
Neutral 50	45	42	13	50	36	12	14	99	.67	33	42	45	.85	1.12
Neutral 35	33	49	18	37	43	18	20	99	.55	45	52	59	.83	1.11
Neutral 20	20	53	27	21	48	27	31	99	.41	59	64	77	.82	1.10
Dual Reflective 40	35	49	16	40	45	12	15	99	.56	44	52	57	.75	1.07
Dual Reflective 30	23	45	32	29	37	25	34	99	.42	58	64	68	.68	1.03
Dual Reflective 15	13	45	42	16	39	21	45	99	.30	70	74	82	.77	1.08
Solar Bronze 50	Coming soon													
Solar Bronze 35	Coming soon													
Solar Bronze 20	Coming soon													

SunGate - Solar Performance Specifications

	Solar Energy			Visible Light				UVR	SC	SHR	TSER	GR	E	U-Value
	T	A	R	T	A	R								
						Int	Ext							
Crystal 50	44	48	8	52	39	10	9	99	.66	34	43	42	.85	1.11
Crystal 35	33	60	7	42	50	9	8	99	.59	41	50	53	.86	1.12
Crystal 20	14	72	14	21	66	14	13	99	.40	60	65	77	.81	1.10
Alox 50	45	44	11	55	35	9	10	99	.67	33	43	39	.84	1.11
Alox 35	27	55	18	36	49	11	15	99	.50	50	57	60	.86	1.12
Alox 20	18	71	11	25	65	10	10	99	.45	55	61	72	.85	1.11

Reflective - Solar Performance Specifications

	Solar Energy			Visible Light				UVR	SC	SHR	TSER	GR	E	U-Value
	T	A	R	T	A	R								
						Int	Ext							
Silver Reflective 50	40	41	19	51	30	21	19	99	.58	42	50	43	.72	1.04
Silver Reflective 35	31	41	28	41	30	28	29	99	.49	51	58	54	.72	1.05
Silver Reflective 20	13	38	49	18	27	56	55	99	.26	74	78	80	.64	1.01
Grey Reflective 35	42	49	9	36	56	9	8	99	.63	37	46	60	.84	1.03
Grey Reflective 20	25	52	23	22	69	22	9	99	.49	51	58	76	.77	1.12
Grey Reflective 5	8	66	26	5	85	57	10	99	.25	75	78	94	.65	1.04
Bronze Reflective 40	44	47	9	42	48	9	10	99	.66	34	43	53	.82	1.06
Bronze Reflective 30	32	51	17	30	57	24	13	99	.53	47	53	67	.73	1.08



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Architectural Construction and Availability Specifications

Estate - Construction and Availability

	100' Rolls	Adhesive	SRC	Mil	Ply
Neutral 65	36" 48" 60" 72"	UCD	Yes	1.5	2
Neutral 50	36" 48" 60" 72"	UCD	Yes	1.5	2
Neutral 35	36" 48" 60" 72"	UCD	Yes	1.5	2
Neutral 20	36" 48" 60" 72"	UCD	Yes	1.5	2
Dual Reflective 40	36" 48" 60" 72"	UCD	Yes	1.5	3
Dual Reflective 30	36" 48" 60" 72"	UCD	Yes	1.5	3
Dual Reflective 15	36" 48" 60" 72"	UCD	Yes	1.5	3
Solar Bronze 50		Coming soon			
Solar Bronze 35		Coming soon			
Solar Bronze 20		Coming soon			

SunGate - Construction and Availability

	100' Rolls	Adhesive	SRC	Mil	Ply
Crystal 50	36" 48" 60" 72"	UCD	Yes	1.5	3
Crystal 35	36" 48" 60" 72"	UCD	Yes	1.5	3
Crystal 20	36" 48" 60" 72"	UCD	Yes	1.5	3
Alox 50	36" 48" 60" 72"	UCD	Yes	1.5	2
Alox 35	36" 48" 60" 72"	UCD	Yes	1.5	3
Alox 20	36" 48" 60" 72"	UCD	Yes	1.5	3

Reflective - Construction and Availability

	110' Rolls	Adhesive	SRC	Mil	Ply
Silver Reflective 50	36" 48" 60" 72"	PS/UCD	Yes	2	2
Silver Reflective 35	36" 48" 60" 72"	PS/UCD	Yes	2	2
Silver Reflective 20	36" 48" 60" 72"	PS/UCD	Yes	2	2
	100' Rolls	Adhesive	SRC	Mil	Ply
Grey Reflective 35	36" 48" 60"	PS	Yes	2	2
Grey Reflective 20	36" 48" 60"	PS	Yes	2	2
Grey Reflective 5	36" 48" 60"	PS	Yes	2	2
Bronze Reflective 40	36" 48" 60"	PS	Yes	2	2
Bronze Reflective 30	36" 48" 60"	PS	Yes	2	2



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Defender™ Solar Performance Specifications

DEFENDER™ - Solar Performance Specifications														
	Solar Energy			Visible Light										
	T	A	R	T	A	R		UVR	SC	SHR	TSER	GR	E	U-Value
						Int	Ext							
4 MIL Clear	83	11	6	90	1	8	9	99	.98	2	13	0	.89	1.12
7 MIL Clear	81	12	7	91	1	8	8	99	.98	2	15	0	.88	1.12
12 MIL Clear	80	11	9	88	2	10	10	99	.96	4	16	2	.86	1.11
4 MIL Silver Reflective 35	31	41	28	41	30	28	29	99	.49	51	58	54	.72	1.05
4 MIL Silver Reflective 20	12	41	47	17	29	56	54	99	.26	74	78	81	.60	0.98
8 MIL Silver Reflective 20	12	41	47	17	29	56	54	99	.26	74	78	81	.60	0.98
4 MIL Charcoal 40	55	39	6	39	54	5	7	99	.76	24	34	57	.86	1.14

Defender™ Construction and Availability Specifications

DEFENDER™ - Construction and Availability						
	100' Rolls	75' Rolls	Adhesive	SRC	Mil	Ply
4 MIL Clear	60"		PS	Yes	4	1
7 MIL Clear	60"		PS	Yes	7	2
12 MIL Clear		60"	PS	Yes	12	3
4 MIL Silver Reflective 35	60"		PS	Yes	4	3
4 MIL Silver Reflective 20	60"		PS	Yes	4	3
8 MIL Silver Reflective 20	60"		PS	Yes	8	4
4 MIL Charcoal 40	60"		PS	Yes	4	2



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Specialty Solar Performance Specifications

SPECIALTY - Solar Performance Specifications														
	Solar Energy			Visible Light				UVR	SC	SHR	TSER	GR	E	U-Value
	T	A	R	T	A	R								
						Int	Ext							
Silver Matte	14	30	56	13	25	38	62	99	.25	75	78	86	.70	1.05
Bronze Matte	56	38	6	35	58	9	7	98	.77	23	33	61	.86	1.14
Grey Matte	55	38	7	36	57	9	7	98	.78	22	34	60	.86	1.14
White Matte	61	31	8	77	14	9	9	97	.81	19	30	14	.85	1.09
White Out	12	41	47	8	33	83	59	99	.27	73	77	91	.87	1.12
Black Out	0	59	41	0	96	3	4	99	.18	82	85	100	.63	1.00
UV Clear	81	13	6	89	5	6	6	99	.98	2	15	1	.86	1.15
Blue 35	55	38	7	38	55	5	7	99	.76	24	34	58	.86	1.14
Yellow 80	72	22	6	83	10	7	7	99	.90	10	22	8	.89	1.13
Red 20	59	35	6	23	73	4	4	99	.80	20	31	74	.89	1.13

Specialty Construction and Availability Specifications

SPECIALTY - Construction and Availability					
	100' Rolls	Adhesive	SRC	Mil	Ply
Silver Matte	60"	PS	No	2	2
Bronze Matte	60"	PS	No	2	1
Grey Matte	60"	PS	No	2	1
White Matte	60"	PS	No	2	1
White Out	60"	PS	No	2	1
Black Out	60"	PS	Yes	2.5	3
UV Clear	60"	PS	Yes	2	2
Blue 35	60"	PS	Yes	1	1
Yellow 80	60"	PS	Yes	1	1
Red 20	60"	PS	Yes	1	1



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Nomenclature Chart

Acronyms & Nomenclature

GNR = Global Non Reflective
GHP = Global High Performance
GSG = Global SunGate
GSS = Global Safety & Security (Defender™)
GSF = Global Specialty Films
GLE = Global Limited Editions

Colors

BK = Black
BKO = Black Out
BL = Blue
BR = Bronze
CH = Charcoal
CL = Clear
GP = Graphite
GR = Grey
MT = Matte
NE = Neutral
NICR = Nichrome
NI = Nickel
RD = Red
SV = Silver
WH = White
WHO = White Out
YW = Yellow

Fenestration & Construction

A = Absorbed
CW = Clear Weatherable
DR = Dual Reflective
E = Emissivity
GR = Glare Reduction
R = Reflected
SC = Shading Coefficient
SRC = Scratch Resistant Coating
SHR = Solar Heat Reduction
T = Transmitted
TSER = Total Solar Energy Rejected
UVR = Ultraviolet Rejected
VLT = Visible Light Transmitted

Adhesives

PS = Pressure Sensitive Adhesive
UCD = Ultra Clear Dry Adhesive