



**SOLAR**

**CONTROL WINDOW FILM**

**elite**

# Characteristics



Excellent dimensional stability



Heat lock function



Anti-Break security function



Privacy



99% protection of UV ray



Various interior effects

# High infrared rejection window film



# Certificate of quality



IRBK 05/50



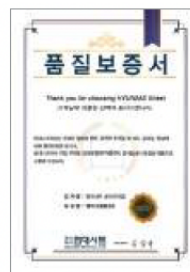
IRBK 10/50

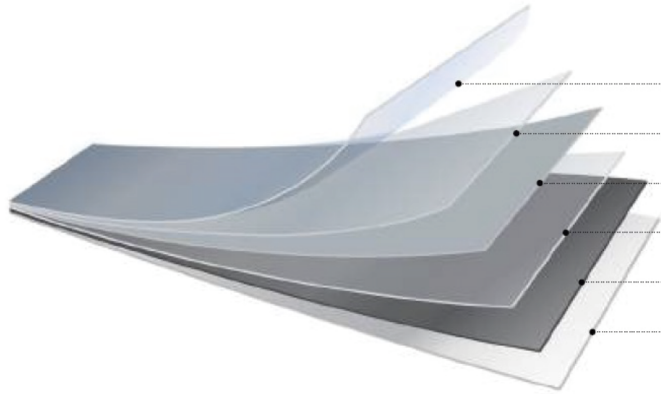


IRBK 30/50



IRBK 40/50





## **THERMAL BARRIER FILM**

Anti-scratch coating

High transparency PET film

IR + Adhesive layer

High transparency PET film

UV-CUT + adhesive layer

Base layer

**IRBK 05/50 · WIR 05005**

**Size | (W) 1,525 mm x (L) 30 M**

1	2	3	4	5	6	7	8
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Solar Heat Remove Efficiency	Shading Coefficient	Heat Transmission Coefficient	Structure, Thickness
5.6 %	4.7%	66.8 %	99%	0.54	0.52	6.01 W/m²k	2 mil/2ply

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# IRBK 10/50 · WIR 05010

Size | (W) 1,525 mm x (L) 30 M

1	2	3	4	5	6	7	8
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Solar Heat Remove Efficiency	Shading Coefficient	Heat Transmission Coefficient	Structure, Thickness
9.3 %	4.6%	60.0 %	99%	0.50	0.56	6.01 W/m²k	2 mil/2ply

# IRBK 30/50 · WIR 05030

Size | (W) 1,525 mm x (L) 30 M

1	2	3	4	5	6	7	8
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Solar Heat Remove Efficiency	Shading Coefficient	Heat Transmission Coefficient	Structure, Thickness
27.6 %	5.0%	47.3 %	99%	0.41	0.68	6.00 W/m <sup>2</sup> k	2 mil/2ply



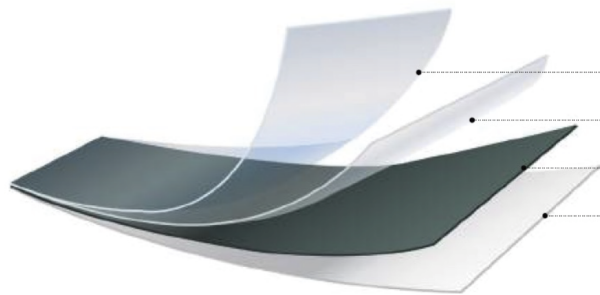
# IRBK 40/50 · WIR 05040

Size | (W) 1,525 mm x (L) 30 M

1	2	3	4	5	6	7	8
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Solar Heat Remove Efficiency	Shading Coefficient	Heat Transmission Coefficient	Structure, Thickness
43.5 %	5.5%	41.2 %	99%	0.34	0.75	6.00 W/m <sup>2</sup> k	2 mil/2ply

## Glue coating window film





## **GENERAL FILM**

Anti-scratch coating

Transparent layer

Adhesion of dyes that absorb UV rays

Base layer

# BK 01 · WES 00051

# BLACK 01 · WES 00151

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
2.20 %	5.30 %	12.20 %	99%	37.60 %	7.7 %	54.80 %	47.93 %	0.64	> 2H	1.5 mil/1ply

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# BK 15 · WES 00052

# BLACK 15 · WES 00152

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
11.00 %	13.60 %	11.90 %	99%	43.90 %	14.3 %	41.80 %	44.81 %	0.67	> 2H	1.5 mil/1ply

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# DBK 05 · WES 00053

# SMOKE 05 · WES 00153

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
1.90 %	5.20 %	11.70 %	99%	37.90 %	7.6 %	54.60 %	47.70 %	0.64	> 2H	1.5 mil/1ply

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# SM 20 · WES 00054

# SMOKE 20 · WES 00154

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
13.20 %	7.00 %	12.60 %	99%	44.70 %	9.4 %	45.90 %	43.17 %	0.69	> 2H	1.5 mil/1ply

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# SM 35 · WES 00055

# SMOKE 35 · WES 00155

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
23.30 %	5.70 %	11.10 %	99%	51.20 %	8.0 %	40.80 %	38.03 %	0.74	> 2H	1.5 mil/1ply

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# SM 50 · WES 00056

# SMOKE 50 · WES 00156

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
43.40 %	7.20 %	12.00 %	99%	59.50 %	8.9 %	31.60 %	32.16 %	0.80	> 2H	1.5 mil/1ply

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**DBU 05 · WES 00057**

**GY 05 · WES 00157**

**Size | (W) 1,000 mm x (L) 50 M**

**Size | (W) 1,524 mm x (L) 30 M**

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
2.30 %	13.20 %	13.40 %	99%	40.30 %	13.9 %	45.70 %	47.33 %	0.64	> 2H	1.5 mil/1ply

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**DBU 20 · WES 00058**

**GY 20 · WES 00158**

**Size | (W) 1,000 mm x (L) 50 M**

**Size | (W) 1,524 mm x (L) 30 M**

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
24.32 %	4.91 %	10.69 %	99%	59.79 %	7.12 %	33.09 %	33.00 %	0.77	> 2H	1.5 mil/1ply

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**DBU 35 · WES 00059****GY 35 · WES 00159****Size | (W) 1,000 mm x (L) 50 M****Size | (W) 1,524 mm x (L) 30 M**

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
38.90%	14.80 %	10.90 %	99%	55.20 %	14.7 %	30.10 %	36.69 %	0.75	> 2H	1.5 mil/1ply

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# GN 05 · WES 00060

# GREEN 05 · WES 00160

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
3.30 %	13.40 %	13.40 %	99 %	36.90 %	13.9 %	49.20 %	49.84 %	0.62	> 2H	1.5 mil/1ply

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# GN 25 · WES 00061

# GREEN 25 · WES 00161

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
21.60 %	5.80 %	11.70 %	99 %	47.70 %	8.0 %	44.40 %	40.58 %	0.72	> 2H	1.5 mil/1ply

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# GN 35 · WES 00062

# GREEN 35 · WES 00162

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
31.70 %	14.30 %	12.20 %	99 %	51.10 %	14.5 %	34.40 %	39.66 %	0.72	> 2H	1.5 mil/1ply

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# GN 50 · WES 00063

# GREEN 50 · WES 00163

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Lighth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
51.30 %	15.90 %	11.80 %	99 %	59.20 %	15.4 %	25.40 %	33.92 %	0.77	> 2H	1.5 mil/1ply

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# BR 25 · WES 00064

# BRONZE 25 · WES 00164

Size | (W) 1,000 mm x (L) 50 M

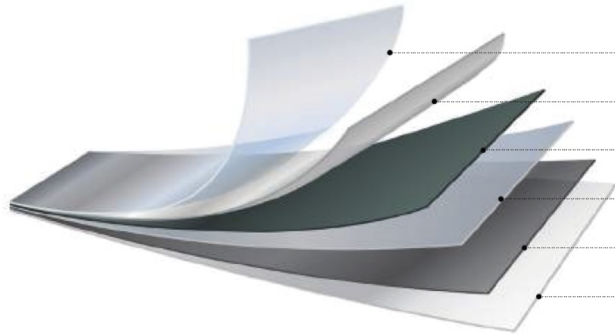
Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
14.00 %	13.70 %	12.00 %	99 %	46.90 %	14.40 %	38.70 %	42.68 %	0.69	> 2H	1.5 mil/1ply

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**Reflective window film**





## **REFLECTIVE FILM**

Anti-scratch coating

Reflective layer

UV-absorbing ink coating

Transparent layer

Adhesion of dyes that absorb UV rays

Base layer

# RSI 15 · WES 00041

# RSILVER 15 · WES 00141

Size | (W) 1,000 mm x (L) 50 M

Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
21.50 %	58.70 %	80.80 %	99 %	17.10 %	52.00 %	30.90 %	74.54 %	0.32	> 2H	1.5 mil/1ply

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# RGO 15 · WES 00042

# RGOLD 15 · WES 00142

Size | (W) 1,000 mm x (L) 50 M

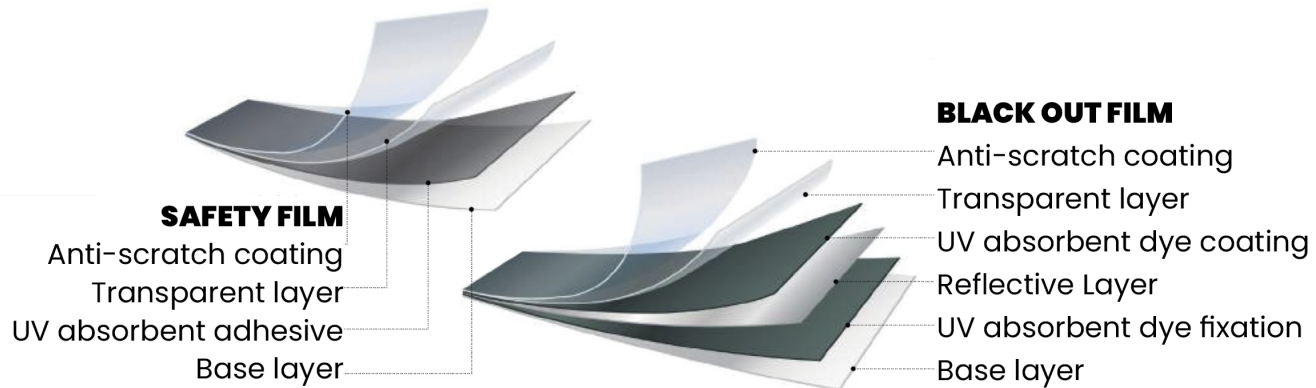
Size | (W) 1,524 mm x (L) 30 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
16.50 %	33.13 %	81.81 %	99 %	14.80 %	46.46 %	38.74 %	76.00 %	0.26	> 2H	1.5 mil/1ply

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**Safety/black out window film**





# CLEAR 2MIL · WSF 00001

# CLEAR 2000 · WSF 00003

Size | (W) 1,524 mm x (L) 30 M

Size | (W) 1,000 mm x (L) 50 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
89.45 %	9.78 %	10.56 %	99 %	87.18 %	9.41 %	3.41 %	16.00 %	0.97	> 2H	1.5 mil/1ply

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# CLEAR 4MIL · WSF 00002

# CLEAR 4000 · WSF 00004

Size | (W) 1,524 mm x (L) 30 M

Size | (W) 1,000 mm x (L) 50 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
88.41 %	10.66 %	10.38 %	99 %	86.39 %	9.84 %	3.77 %	16.00 %	0.97	> 2H	1.5 mil/1ply

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# BLACK OUT · WBO 00001

# BLACK OUT · WBO 00002

Size | (W) 1,524 mm x (L) 30 M

Size | (W) 1,000 mm x (L) 50 M

1	2	3	4	5	6	7	8	9	10	11
Visible Light Transmittance	Visible Ligth Reflectance	Infrared Rejected	Ultra Violet Rejection	Total Solar Energy Transmittance	Total Solar Energy Reflectance	Total Solar Energy Absorbance	Total Solar Energy Rejected	Shading Coefficient	Scratch Resistant	Structure, Thickness
00.00 %	13.70 %	99.60 %	99 %	0.20 %	37.00 %	62.80 %	82.87 %	0.25	> 2H	1.5 mil/1ply

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1. There may be a slight difference between the color of the sample and the purchased product.
2. Install from the inner side of the window with the fixing side facing outward. External construction is not recommended.
3. 1000 width and 1524 width products have different production lots, so there is a difference in color, so avoid installing in the same place
4. Depending on the angle of light, red stains on the film surface may or may not be visible.
5. In the case of a side where are expected, please conduct construction after prior consultation.

# welcome to the revolution elite

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