

NEW STOPRAY PRODUCTS

SOFT-COATED GLASS OFFERING THERMAL INSULATION AND MAXIMUM SOLAR PROTECTION

Double Glazing 6-16-4 (with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC	U _g value W/(m ² K) ⁽¹⁾				
Stopray Vision-72 ^{T (2)}	#2	Neutral	72	38	13	14	26	0.44	1.0	Yes	No	Yes	3 months
Stopray Vision-61 ^{T (2)}	#2	Neutral	61	33	13	13	34	0.38	1.0	Yes	No	Yes	3 months
Stopray Ultra-60 ^{T (2)}	#2	Neutral	62	30	13	15	35	0.34	1.0	Yes	No	Yes	3 months
Stopray Vision-51 ^{T (2)}	#2	Neutral	51	27	14	14	39	0.31	1.0	Yes	No	Yes	3 months
Stopray Vision-40 ^{T (2)}	#2	Neutral	40	21	19	15	39	0.24	1.0	Yes	No	Yes	3 months

Stopray Vision-72	#2	Neutral	72	38	13	14	26	0.44	1.0	No	No	Yes	3 months
Stopray Vision-61	#2	Neutral	61	33	13	13	34	0.38	1.0	No	No	Yes	3 months
Stopray Vision-51	#2	Neutral	51	27	14	14	39	0.31	1.0	No	No	Yes	3 months
Stopray Ultraselect-50 on Clearvision	#2	Neutral	51	24	20	14	32	0.28	1.0	No	Yes	Yes	3 months
Stopray Vision-40	#2	Neutral	40	21	19	15	39	0.24	1.0	No	No	Yes	3 months

Triple glazing 6-14-4-14-4 (Coating in #2 - Clearvision - iplus Top 1.1 on Clearlite in #5 - with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC	U _g value W/(m ² K) ⁽¹⁾				
Stopray Vision-72 ^{T (2)}	#2	Neutral	66	35	16	18	29	0.40	0.6	Yes	No	Yes	3 months
Stopray Vision-61 ^{T (2)}	#2	Neutral	56	31	15	17	36	0.36	0.6	Yes	No	Yes	3 months
Stopray Ultra-60 ^{T (2)}	#2	Neutral	57	28	15	18	37	0.32	0.6	Yes	No	Yes	3 months
Stopray Vision-51 ^{T (2)}	#2	Neutral	47	25	16	17	41	0.29	0.6	Yes	No	Yes	3 months
Stopray Vision-40 ^{T (2)}	#2	Neutral	37	20	20	18	40	0.23	0.6	Yes	No	Yes	3 months

Stopray Vision-72	#2	Neutral	66	35	16	18	29	0.40	0.6	No	No	Yes	3 months
Stopray Vision-61	#2	Neutral	56	31	15	17	36	0.36	0.6	No	No	Yes	3 months
Stopray Vision-51	#2	Neutral	47	25	16	17	41	0.29	0.6	No	No	Yes	3 months
Stopray Ultraselect-50 on Clearvision	#2	Neutral	47	23	22	17	34	0.26	0.6	No	Yes	Yes	3 months
Stopray Vision-40	#2	Neutral	37	20	20	18	40	0.23	0.6	No	No	Yes	3 months

STOPRAY - IPASOL — SOFT-COATED GLASS OFFERING THERMAL INSULATION AND MAXIMUM SOLAR PROTECTION

Double Glazing 6-16-4 (with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC	U _g value W/(m ² K) ⁽¹⁾				
Stopray Vision-60 ^{T (2)}	#2	Neutral	60	37	15	20	37	0.43	1.0	Yes	No	Yes	3 months
Stopray Vision-50 ^{T (2)}	#2	Neutral	50	30	17	22	39	0.34	1.0	Yes	No	Yes	3 months
Stopray Vision-36 ^{T (2)}	#2	Neutral	36	21	31	34	40	0.24	1.0	Yes	No	Yes	3 months
Stopray Lime 61 ^{T (2)}	#2	Green	60	30	10	13	64	0.34	1.0	Yes	No	Yes	3 months
Stopray Titanium 37 ^{T (2)}	#2	Grey	36	24	6	12	64	0.28	1.0	Yes	No	Yes	3 months
Stopray Indigo 48 ^{T (2)}	#2	Dark Blue	47	27	8	13	67	0.31	1.0	Yes	No	Yes	3 months

ipasol neutral 70/37	#2	Neutral	70	37	12	15	29	0.43	1.0	No	Yes	Yes	3 months
ipasol ultraselect 62/29	#2	Neutral	62	29	10	11	33	0.33	1.0	No	Yes	Yes	3 months
Stopray Vision-60	#2	Neutral	61	35	15	18	37	0.40	1.0	No	Yes	Yes	3 months
Stopray Ultra-60	#2	Neutral	60	28	13	14	38	0.32	1.0	No	No	Yes	3 months
ipasol light grey 60/33	#2	Light grey	60	33	10	11	35	0.38	1.0	No	Yes	Yes	3 months
Stopray Ultra-50 on Clearvision	#2	Neutral	50	23	18	14	32	0.26	1.0	No	No	Yes	3 months
Stopray Vision-50	#2	Neutral	50	28	19	22	41	0.32	1.0	No	Yes	Yes	3 months
ipasol neutral 50/27	#2	Neutral	50	27	9	11	48	0.31	1.1	No	Yes	Yes	3 months
ipasol platin 47/29	#2	Silver	47	30	40	30	30	0.34	1.0	No	Yes	Yes	3 months
Stopray Silver 43/25	#2	Silver	43	27	47	43	26	0.31	1.0	No	No	Yes	3 months
ipasol shine 40/22	#2	Blue	40	22	16	12	54	0.25	1.1	No	Yes	Yes	3 months
ipasol sky 30/17	#2	Blue	30	17	18	11	63	0.20	1.1	No	Yes	Yes	3 months
ipasol platin 25/17	#2	Silver	25	17	64	33	20	0.20	1.0	No	Yes	Yes	3 months

Stopray Smart 51/33	#2	Neutral	51	33	25	18	39	0.38	1.1	Yes	No	No ⁽³⁾	9 months
Stopray Smart 30/20	#2	Neutral bluish	30	21	28	15	51	0.24	1.1	Yes	No	No ⁽³⁾	9 months

Triple glazing 6-14-4-14-4 (Coating in #2 - Clearvision - iplus Top 1.1 on Clearlite in #5 - with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC	U _g value W/(m ² K) ⁽¹⁾				
Stopray Vision-60 ^{T (2)}	#2	Neutral	55	34	16	23	40	0.39	0.6	Yes	No	Yes	3 months
Stopray Vision-50 ^{T (2)}	#2	Neutral	46	28	19	24	42	0.32	0.6	Yes	No	Yes	3 months
Stopray Vision-36 ^{T (2)}	#2	Neutral	33	19	31	35	41	0.22	0.6	Yes	No	Yes	3 months

ipasol neutral 70/37	#2	Neutral	65	35	15	18	31	0.40	0.6	No	Yes	Yes	3 months
ipasol ultraselect 62/29	#2	Neutral	57	27	12	15	35	0.31	0.6	No	Yes	Yes	3 months
Stopray Ultra-60	#2	Neutral	55	26	15	18	40	0.30	0.6	No	No	Yes	3 months
ipasol light grey 60/33	#2	Light grey	55	31	12	15	37	0.36	0.6	No	Yes	Yes	3 months
Stopray Vision-60	#2	Neutral	56	32	17	21	39	0.37	0.6	No	Yes	Yes	3 months
Stopray Ultra-50 on Clearvision	#2	Neutral	46	21	20	17	34	0.24	0.6	No	No	Yes	3 months
Stopray Vision-50	#2	Neutral	46	26	20	24	44	0.30	0.6	No	Yes	Yes	3 months
ipasol neutral 50/27	#2	Neutral	46	25	10	15	51	0.29	0.6	No	Yes	Yes	3 months
ipasol platin 47/29	#2	Silver	43	27	41	31	32	0.31	0.6	No	Yes	Yes	3 months
Stopray Silver 43/25	#2	Silver	41	25	48	42	28	0.29	0.6	No	No	Yes	3 months
ipasol shine 40/22	#2	Blue	37	20	17	15	54	0.23	0.6	No	Yes	Yes	3 months
ipasol sky 30/17	#2	Blue	28	15	19	15	64	0.17	0.6	No	Yes	Yes	3 months
ipasol platin 25/17	#2	Silver	23	16	64	34	21	0.18	0.6	No	Yes	Yes	3 months

⁽¹⁾ Identical values for a 15 or 16 mm spacer.

⁽²⁾ This coating must be tempered to reach its final performances and aesthetics. It can not be used annealed.

⁽³⁾ Please follow the processing instructions in the "Stopray Smart Processing Guide" and in the "Stopray Smart Sealant Compatibility Guide".

STOPSOL — REFLECTIVE COATED GLASS PROVIDING SOLAR CONTROL

Double Glazing 6-16-4 (Iplus Advanced 1.0 on Clearlite in #3 - with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673 U _g value W/(m ² K) ⁽¹⁾	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC					
Stopsol Classic Clear	#2	Neutral	33	29	28	36	41	0.33	1.0	Yes	N/A	No	Unlimited
Stopsol Classic Grey	#2	Grey	16	18	10	35	72	0.21	1.0	Yes	N/A	No	Unlimited
Stopsol Classic Green	#2	Green	27	18	20	36	73	0.21	1.0	Yes	N/A	No	Unlimited
Stopsol Classic Bronze	#2	Bronze	19	19	12	35	69	0.22	1.0	Yes	N/A	No	Unlimited
Stopsol Supersilver Clear	#2	Neutral	55	42	37	36	22	0.48	1.0	Yes	N/A	No	Unlimited
Stopsol Supersilver Grey	#2	Grey	26	24	12	35	65	0.28	1.0	Yes	N/A	No	Unlimited
Stopsol Supersilver Green	#2	Green	45	27	26	36	62	0.31	1.0	Yes	N/A	No	Unlimited
Stopsol Supersilver Dark Blue	#2	Dark blue	35	24	18	35	66	0.28	1.0	Yes	N/A	No	Unlimited
Stopsol SilverLight Privablu	#2	Intense blue	23	16	8	28	82	0.18	1.0	Yes	N/A	No	Unlimited

IPASOL BRIGHT — REFLECTIVE COATED GLASS PROVIDING SOLAR CONTROL

Double Glazing 6-16-4 (Iplus Advanced 1.0 on Clearlite in #3 - with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673 U _g value W/(m ² K) ⁽¹⁾	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC					
ipazol bright neutral	#2	Neutral	55	42	36	36	24	0.48	1.0	Yes	Yes	No	3 months
ipazol bright white	#2	Neutral	56	45	38	36	12	0.52	1.0	Yes	Yes	No	3 months

SUNERGY — NEUTRAL HARD-COATED GLASS OFFERING SOLAR PROTECTION AND GOOD THERMAL INSULATION

Double Glazing 6-16-4 (Iplus Advanced 1.0 on Clearlite in #3 - with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673 U _g value W/(m ² K) ⁽¹⁾	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC					
Sunergy Clear	#2	Neutral	58	41	12	18	48	0.47	1.0	Yes	N/A	No	Unlimited
Sunergy Green	#2	Green	48	28	10	17	69	0.32	1.0	Yes	N/A	No	Unlimited
Sunergy Azur	#2	Light blue	48	30	10	17	67	0.34	1.0	Yes	N/A	No	Unlimited
Sunergy Dark Blue	#2	Dark blue	35	24	8	17	74	0.28	1.0	Yes	N/A	No	Unlimited
Sunergy Grey	#2	Grey	29	24	6	16	72	0.28	1.0	Yes	N/A	No	Unlimited

IPLUS / PLANIBEL LOW-E — THERMAL INSULATION, NEUTRAL AESTHETICS AND HIGH LIGHT TRANSMISSION

Double Glazing 4-15-4 (with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673 U _g value W/(m ² K) ⁽¹⁾	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC					
Iplus Top 1.1 on Clearlite	#3	Neutral	82	64	12	12	14	0.74	1.1	No	No	Yes	3 months
Iplus Top 1.1 [†] on Clearlite ⁽²⁾	#3	Neutral	82	66	12	12	13	0.76	1.1	Yes	No	Yes	3 months
Iplus Advanced 1.0 on Clearlite	#3	Neutral	77	57	15	16	16	0.66	1.0	No	No	Yes	3 months
Iplus Advanced 1.0 [†] on Clearlite ⁽²⁾	#3	Neutral	81	62	13	14	13	0.71	1.0	Yes	No	Yes	3 months
Iplus Energy ^N on Clearlite	#2	Neutral	73	41	12	14	24	0.47	1.0	No	No	Yes	3 months
Iplus Energy ^{NT} on Clearlite ⁽²⁾	#2	Neutral	74	42	12	14	22	0.48	1.0	Yes	No	Yes	3 months
Iplus Light	#2	Neutral	65	41	25	24	26	0.47	1.0	No	No	Yes	3 months
Iplus I-Top	#3	Neutral	79	61	13	13	21	0.70	1.1	No	No	Yes	3 months
Iplus AF Top	#1 #2	Neutral	76	57	16	16	19	0.66	1.1	No	N/A	Yes	3 months
Iplus AF Energy ^N	#1 #2	Neutral	69	39	16	16	27	0.45	1.0	No	N/A	Yes	3 months
Planibel A	#3	Neutral	73	75	17	15	23	0.86	1.4	Yes	N/A	No	Unlimited
Planibel G	#3	Neutral	75	76	17	16	19	0.87	1.5	Yes	N/A	No	Unlimited
Planibel G fasT	#3	Neutral	75	76	17	16	19	0.87	1.5	Yes	N/A	No	Unlimited
Planibel Pure Comfort 10	#3	Neutral	75	75	17	16	21	0.86	1.4	Yes	No	No	Unlimited

Triple Glazing 4-14-4-14-4 (Low-e in #2 - Clearvision - Low-e in #5 - with 90% Argon)

	Coating Position	Colour	EN 410 (2011)						EN 673 U _g value W/(m ² K) ⁽¹⁾	Temperable/ Bendable	Cut size	Edge deletion	Shelf life
			LT (%)	SF (%)	LR ext (%)	LR int (%)	EA (%)	SC					
Iplus Top 1.1 on Clearlite	#2 #5	Neutral	75	53	16	16	19	0.61	0.6	No	No	Yes	3 months
Iplus Advanced 1.0 on Clearlite	#2 #5	Neutral	66	43	22	22	22	0.49	0.6	No	No	Yes	3 months
Iplus AF Top	#1 #2 #5	Neutral	70	50	19	19	24	0.57	0.6	No	N/A	Yes	3 months
Iplus AF Energy ^N	#1 #2 #5	Neutral	63	36	19	19	31	0.41	0.6	No	N/A	Yes	3 months
Iplus LS	#2 #5	Neutral	75	61	17	17	19	0.70	0.7	No	No	Yes	3 months

⁽¹⁾ Identical values for a 15 or 16 mm spacer.

⁽²⁾ This coating must be tempered to reach its final performances and aesthetics. It can not be used annealed.

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Performances
Coatings
SOLAR CONTROL
& THERMAL INSULATION