



Low-Emissivity Coated Glass

Low-Emissivity (or commonly known as Low-E glass) coatings are manufactured with Vacuum Sputtering technology.





Product Features

- Highly prevent solar infrared thermal transmittance, and provide ideal summer heat-insulation performance.
- Higher visible light transmittance ensures adequate natural light indoor.
- Lower heat transfer coefficient, a better heat preservation in winter.

Insulating Glass

Clear glass, tinted glass, tempered glass, Low-E glass, laminated glass and enameled glass can be composed into planar insulated glass.

Product Features

- Optical Properties: The visible light transmittance of insulating glazing systems is in the range of 7 - 80% and the visible light reflectance is in the range of 10 - 48%
- Thermal Properties: The U-value is effectively lowered by insulating glazing and can be further reduced by filling of inert gases
- Acoustical Insulation: Insulating glazing can reduce noise by more than 30 dB
- Condensation: The dew point of insulating glazing system is below -65 degree which guarantees no condensation formation under normal applications





Sealing: Aluminum spacer is automatically curved and formed with the fewest joints and dual seals are applied, which ensures excellent sealing characteristics and long application lifetime

Laminated Glass

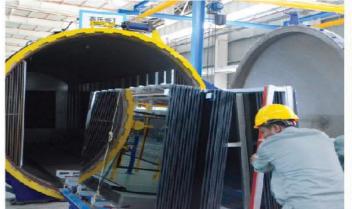
Laminated glass is made of two or more sheets of glass laminate with a polyvinyl butyral (PVB) based inter-layer.



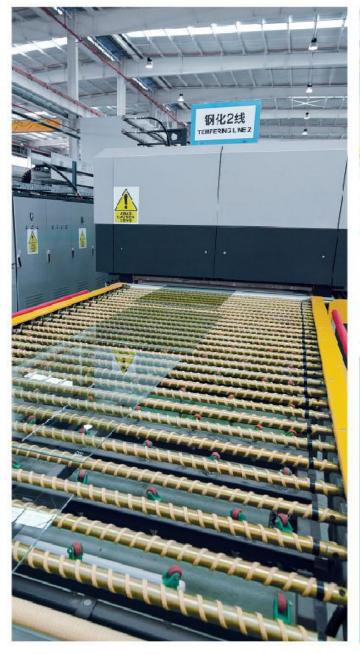


Product Features

- Safety: When impacted by any external force and cracked, laminated glass still completely remains in the original frame
- Hurricane and earthquake resistance: Even if the glass is broken, it will not fall to the ground in whole. Rather, it will stay where it was before it becomes broken
- Explosion and bullet resistance: When many inter-layers are adopted, different grades of bullet/ explosion-proof glass can be produced
- Anti-ultraviolet radiation and thermal insulation: It can very effectively block ultraviolet rays in the sunlight to avoid ultraviolet radiation and reduce thermal transmittance
- Acoustical Reduction: PVB film can reduce transmission of noise











Heat Treated Glass

Tempered & Heat-Strengthened Glass

Tempered and heat-strengthened glass are obtained by heating ordinary glass to its softening point and follow by cooling down to form compression in the surface layer of the glass, thus the mechanical strength is increased by times.





1 Single Silver Low-E

Series	of Single Silver	Low-E											
			Visible Light(%)			Solar Energy(%)			ASHRAE				
Туре		pe Reflective		Reflectance		Transmittance	Reflectance		U- Value(W/m²,K)		Sharding	SHGC	Emissivity
	Coloi	Transmittance	Out	In	Transmittance	Out	In	Winter Night	Summer Day	Coefficient	эпис		
		Light Blue	53	20	10	34	25	22	1.75	1.73	0.46	0.40	0.100
		Blue Grey	40	23	11	26	25	21	1.88	1.89	0.37	0.33	0.120
Silver *Blue Gre	*Light Blue *Blue Grey	Neutral Grey	43	29	13	26	34	27	1.74	1.71	0.36	0.31	0.070
Low-E	*Neutral Grey	Light Blue	70	9	13	45	27	18	1.81	1.80	0.58	0.51	0.105

1.74

0.64

0.56

0.082

12

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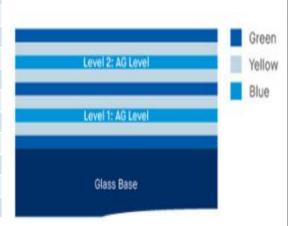


2 Double Silver Low-E

Blue Grey

Series of Double Silver Low-E	
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			Visible Li	Solar Ene	rgy(%)		ASHRAE						
т.	/pe	Reflective	Reflectance		tance		Reflectance		U-Value(W/m ² ,K)		Sharding		Emissivity
1)	ype	Color	Transmittance	Out	In	Transmittance	Out	In	Winter Night	Summer Day	Coefficient	SHGC	Elillosivicy
		Transparency	69	11	12	35	30	31	1.67	1.61	0.46	0.40	0.034
	*Neutral	Neutral Grey	51	14	11	24	36	33	1.66	1.60	0.33	0.29	0.030
	Grey	Blue Grey	47	23	14	21	43	37	1.66	1.61	0.28	0.24	0.031
Double	*Light	Silver Grey	45	21	12	20	40	35	1.66	1.60	0.28	0.24	0.031
Silver	Blue	Blue Grey	41	13	10	20	30	30	1.68	1.64	0.29	0.25	0.041
	*Deep	Neutral Grey	44	13	12	21	32	29	1.68	1.62	0.30	0.26	0.039
Low-E	Blue	Sky Blue	44	25	13	19	45	38	1.64	1.58	0.26	0.22	0.021
	*Bright	Ocean Blue	43	20	14	19	37	35	1.65	1.59	0.26	0.23	0.025
	Silvery	Dark Blue	41	12	12	19	29	34	1.67	1.62	0.28	0.25	0.035
		Grey	31	19	12	15	36	29	1.68	1.63	0.22	0.19	0.040



3 Triple Silver Low-E

Serie	Series of Triple Silver Low-E													
			Visible Li	ght(%)		Solar Ene	rgy(%)			ASH	RAE			
7	Гуре	Reflective		Reflec	tance	Refl		tance	U-Value(W/m²,K)		Sharding Succ Emissivit		Emissivity	
·	урс	Color	Transmittance	Out	In	Transmittance	Out	In	Winter Night	Summer Day	Coefficient	SHGC	5,	
	*Neutral Blue	Neutral Blue	65	11	13	26	39	40	1.62	1.55	0.33	0.29	0.011	
Silver	Grev	*Neutral Neutral Grey	49	13	11	19	42	39	1.65	1.59	0.26	0.23	0.027	
Low-E		Silver Grey	41	18	13	16	42	35	1.65	1.58	0.23	0.20	0.018	



4 Hard Coating Low-E

	Hard C	oating Lo	w-E											
	Туре			Visible Light(%)			Solar Energy(%)			ASHRAE				
			Reflective		Reflectance			Reflectance		U-Value(W/m²,K)		Sharding		
	Турс	pe	Color	Transmittance	Out	In	Transmittance	Out	In	Winter Night	Summer Day	Coefficient	SHGC	
	Hard Coating Low-E	*Hard Coating	Light Green	70	10	8	59	10	9	3.93	3.08	0.74	0.64	



Solar Reflective Glass

Series of Solar Reflective	
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		Visible L	ight(%)		Solar Ener	gy(%)		ASHRAE U-Value(W/m².K)			
Туре	Reflective Color		Reflectance			Reflectance		U-Value(W/m²,K)		Sharding	
турс		Transmittance	Out	In	Transmittance	Out	In	Winter Night	Summer Day	Coefficient	SHGC
	Silver Grey	31	19	20	24	18	28	5.01	4.35	0.44	0.38
	Blue Grey	35	24	9	26	20	21	5.03	4.37	0.45	0.39
	Grey	37	17	14	29	16	22	5.59	4.98	0.51	0.44
	Ocean Blue	37	18	13	28	13	27	5.02	4.35	0.49	0.43
	Light Blue	46	17	16	41	12	17	5.63	5.03	0.62	0.54
	Neutral Grey	60	8	14	54	6	14	5.27	4.64	0.73	0.64
Solar	Gold	24	20	21	26	18	17	5.04	5.38	0.46	0.40
Reflect	Euro Grey	40	6	22	39	6	22	5.55	4.94	0.61	0.53
	Champagne	42	9	16	36	10	19	5.44	4.82	0.58	0.50
	Bright Silver	20	33	23	16	27	32	4.76	4.06	0.33	0.29
	Bright Silver Grey	22	27	27	19	22	32	4.97	4.29	0.38	0.33
	Tranparency with Slight Blue	68	19	19	65	14	16	5.98	5.40	0.82	0.71
	Tranparency	74	7	11	67	6	10	5.97	5.39	0.86	0.75

Comparison Parameter of Saving Glass

Product Name	Structure	Transmittance (%)	Shading Coefficient (SC)	U Value (W/m²k)	Selection Factor (r)
Clear Glass	6mm	89	0.96	5.40	0.93
Solar Reflection	6mm	60	0.73	4.64	0.82
Insulating Glass	6+12A+6	80	0.84	2.88	0.95
Single Silver Low-E DGU	6+12A+6	53	0.46	1.73	1.15
Double Silver Low-E DGU	6+12A+6	47	0.28	1.60	1.68
Triple Silver Low-E DGU	6+12A+6	50	0.26	1.54	1.92

