

FROM CHINA. FOR THE WORLD **源自中华 服务天下**

ORIENT INDUSTRY GROUP CO.,LIMITED

Company Synopsis

源自中华 服务天下



◇总裁寄语

生命就有使命。

奥林德公司自成立以来,始终秉承"诚信、专业、共赢"的经营理念,积极进取、努力创新。稳健开拓国际市场。

经过十八年的积淀,我们的产品已出口到了全球106个国家和地区,ORIENT--FROM CHINAFOR THE WORLD 的品牌形象已经纵贯全球。

未来道路上,我们绝不止步!

成就面前不保守,困难面前不妥协,目标面前 不懈怠。

背倚巍巍青山,面向茫茫碧海。胸怀天下的美 林德人正携着信心与使命,劈波斩浪、扬帆起航!



President's Oration

Born, not alone; with Mission accompany.

And Orient is no exception.

Holding the management principle of "Integrity, Profession, Win-win", the company achieves great progress while innovating, for a further step into international market.

18 years' experience spread over Orient products to 106 countries and regions. Hence, ORIENT—FROM CHINA, FOR THE WORLD, the brand image is known all over the world.

Never will we stop in the future.

No Conservative, as Achievement we have got;

No Compromise, as we are not afraid of any difficulties;

No Letup, as we have goals, lighting our road;

Blessing as we are, Lofty Green Mountains as shield, Vast Blue Seas as wing.

Orient shows the world its passion and faith! Here we are, to accomplish our Mission!





2011年青岛奥林德奖学金颁奖仪式 2011 Orient Scholarship Award Ceremony



№ 2011上海玻璃展 China Glass Exhibition, Shanghai 2011



外国语学院"青岛奥林德"奖学金颁奖仪式

№ 2012年青岛奧林德奖学金颁奖仪式 2012 Orient Scholarship Award Ceremony



ORIENT INDUSTRY GROUP CO., LIMITED-



Orient Glass depends on the advanced technology and equipments to improve the glass product quality, and have made an outstanding achievement in high quality float glass field. Our company produces tinted float glass, automobile glass, mirror glass, coating glass etc, and has received much praise from customers all over the world.

◆Mirror ◆Optics facility panel

◆Automobile glass ◆Household appliances panel

◆Building

► Features ◆Good quality ◆ Predominant optics performance

◆Complete specification ◆Easy to process (tempering, coating, mirror etc)

Technical Parameters

Thickness	Visible Light Transmittance	Visible Light Reflectivity	Solar Transmittance	Solar Reflectivity	Visible-Infrared Transmittance	Ultraviolet Transmittance	
2mm	90.69	8.3	87.22	7.9	84.15	83.44	
2.5mm	90.47	8.3	86.14	7.8	82.31	81.97	
2.8mm	90.34	8.3	85.51	7.7	81.22	81.15	
3mm	90.25	8.3	85.09	7.7	80.51	80.62	
3.2mm	90.17	8.3	84.67	7.7	79.80	80.11	
4mm	89.82	8.3	83.04	7.6	77.03	78.18	
5mm	89.39	8.2	81.07	7.4	73.71	76.02	
6mm	88.96	8.2	79.17	7.3	70.54	74.08	
8mm	88.31	8.1	76.51	7.1	66.14	70.60	
10mm	87.47	8.1	73.61	6.9	61.56	67.15	
12mm	86.25	8.0	68.53	6.6	53.09	66.23	



High 源自中华服务天下

Quality Float Glass

Specifications

Thickness	2mm、2.5mm、2.8mm、3mm、3.2mm	4mm, 5mm 6mm, 8mm, 10mm, 12mm					
	1830*2134mm 1830*2440mm	1830*2134mm 1830*2440mm 1650*2134mm					
Specification	1650*2134mm 1650*2440mm	1650*2440mm 3660*2134mm 3660*2440mm					
	1650*1830mm 1500*2000mm	3300*2134mm 3300*2440mm 3050*2134mm					
	920*1016mm	3300*5000mm 3300*6500mm 3300*6000mm					

Physical/Mechanical Properties

Density	2.5g/cm ³			
Linear coefficient of expansion:25-300℃	8.9×10 ⁻⁶ /℃			
Softening point	723℃			
Annealing point	544°C			
Strain point	504℃			
(-18-66℃) Hemispherical emissivity	0.84			
Specific heat (0-100℃)	0.205			
Thermal conductivity (49°C) (watt/m2/k)	36.9			
Modulus of elasticity (Young's modulus)	73.1Gpa			
Modulus of rupture (tensil strength-ultimate)	41.4Mpa			
Knoop hardness	470kgf/m ²			

ORIENT INDUSTRY GROUP CO., LIMITED

Tinted Glass

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Thichness: 3-12mm;

Min size: 920*1016mm;

Max size: 2440*3300mm.

Orient tinted glass have received much praise from customers all over the world.

Features

- ◆ Perfect color series
- ◆ Predominant product quality
- ◆ Color consistancy
- ◆ Complete specification

Thickness: 3-12mm Min size: 920*1016mm

Max size: 2440*3300mm

◆ Continuous and stable supplying







Golden Bronze

Applications:
Mirror, furniture, building etc

金壁辉煌的气势, 在蕴含柔美的感 觉中充分感受金色的富足



Euro Bronze

Applications:
Mirror、Furniture、
building etc
朦胧的灰色交织着淡淡的
茶色,阵阵茶香扑面而来



Euro Grey

Applications:
Shower bath、Furniture、building coating Etc
淡淡的黑色与忧郁的灰色在这里完美结合,让人心旷神怡



French Green

Applications: Furniture, building, auto glass etc "忧郁的绿色, 在典雅中沉淀出一份宁静



Ocean Blue

Applications: Doors, windows, coating, shower bath, furniture etc 来自大海永恒而纯粹的神韵,在喧嚣中阻挡住一切的世俗



Dark Blue

Applications, mirror, shower bath, furniture, building, coating etc 大自然中的神秘在这里体现,

时尚的气息无处不在

Optical Parameters

Thickness (5mm)	Visible Light Transmittance	Visible Light Reflectivity	Solar Transmittance	Solar Reflectivity	Visible- Infrared Transmittance	Ultraviolet Transmittance	
Golden Bronze	45.85	5.4	47.27	5.3	50.07	13.17	
Euro Bronze			50.19	5.4	50.93	25.12 34.06	
Dark Blue	46.36	5.4	46.25 5.3		43.27		
Euro Grey	49.65	5.5	46.76	5.3	42.34	32.85	
F Green	77.45	7.3	54.15	5.9	35.45	49.07	
Ocean Blue	66.87	6.6	50.47	5.8	45.97	45.33	

Reflective Glass



From China, For The World



Reflective glass is produced by coating one or more layers of metal or compound thin film on float glass by way of vacuum magnetron sputtering. The major function of the coating is to control the reflection, transmission and absorption of direct radiation at desirable ratio, and to produce the needed reflective color. Reflective glass has the following features:

Features

- ◆Effectively limit direct solar radiation transmission.
- ◆ Various reflective colors and excellent decoration effect.
- ◆Excellent sight shielding effect on the indoor objects and structures.
- ◆Proper visible light transmittance and reflectance.
- ◆Lessen transmission of ultraviolet.

Thickness

◆4mm, 5mm, 6mm.

Colour

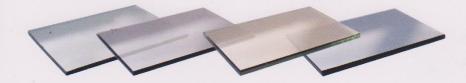
◆Clear, bronze, ocean blue, dark blue, ford blue, french green, dark green, euro grey, dark grey, pink, yellow, golden.

Max size

◆3300x2440mm

Normal size

◆3300x2140mm, 2000x1500mm, 2134x1372mm, 2134x1524mm, 2134x1676mm, 2134x1830mm, 3050x2134mm, 3210x2140mm, 3050x2440mm.



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Ultra Clear Glass

源自中华 服务天下

Ultra clear glass is low iron glass with high light transmittance. It is high grade, multifunctional, new type glass and generally its light transmittance is higher than 91%. It is crystal clear and crowned as "crystal prince" of glass family.

With its crystal clear appearance, Orient ultra clear glass has become a highlight in world architectural industry. It not only brings benefit on energy saving and environmental protection, but also has modern fashionable style, meanwhile, it can arouse the designers' creation and inspiration.

Optical Parameters

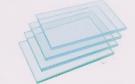
Thickness	Visible Light	Visible Light	Solar Rsdiant coefficient		Shading coefficient			Uvalue	Sound insulation		UV penetration		
Inickness	Transmittance	Reflectivity	Direct Pentrate	Reflectivity	Absorb	Total Penetrate	Short Wave	Long Wave	Total	(W/m2K)	Rm (dB)	Rm (dB)	ponessas
3mm	91.50	8	91	8	1	91	1.05	0.01	1.05	5.8	26	30	76
3.2mm	91.50	8	91	8	2	91	1.03	0.01	1.05	5.8	26	30	75
4mm	91.40	8	90	8	2	91	1.03	0.01	1.05	5.8	27	30	73
5mm	91.30	8	90	8	2	90	1.03	0.01	1.03	5.8	29	32	71
6mm	91.08	8	89	8	3	90	1.02	0.01	1.03	5.7	29	32	70
8mm	91.89	8	88	8	4	89	1.01	0.01	1.02	5.7	31	34	68
10mm	91,62	8	88	8	4	89	1.01	0.02	1.02	5.6	33	36	66
12mm	91,44	8	87	8	5	88	1.00	0.02	1.01	5.5	34	37	64
15mm	90.09	8	86	8	6	87	0.99	0.02	1.00	5.5	35	38	61
19mm	89.73	8	84	8	7	86	0.97	0.02	0.99	5.5	37	40	59
22mm	89.60	8	82	8	9	85	0.95	0.02	0.97	5.5	38	43	58
25mm	89.00	8	81	8	9	84	0.93	0.02	0.95	5.5	39	45	56





Unique advantages of Orient ultra clear glass

- ◆Perfect product series. Thickness range of Orient ultra clear glass is from 2mm to 25mm, the min size is 920*1016mm; the max size is 3660*12500mm
- ◆Environmental friendly protect.
- ◆Color consistency.
- ◆Favorable cost performance.
- ◆Continuous supplying advantage.
- ◆Service advantage.



Mechanical/Physical parameters

Elasticity Modulus	73.1GPa			
Rupture Modulus (tensil strength-ultimate)	41.4MPa			
Knoop hardness	456kgf/mm ²			
Density	2.5076g/cm			
20-300℃ Linear Coefficient of Expansion 20-300℃	9.28×10 ⁻⁶ /°C			
Linear Coefficient of Expansion 20-450℃	9.75×10 ⁻⁶ /°			
Transformation Temperature	556℃			
Intenerate Temperature or Yield Point	2909			
Softening point	710℃			
Annealing point	547℃			
Strain point	513℃			
Log2 High Temperature Viscosity log2	1392℃			
log3 High Temperature Viscosity log3	1152°C			
log4 High Temperature Viscosity log4	996℃			
Liquid phase Temperature	1008℃			

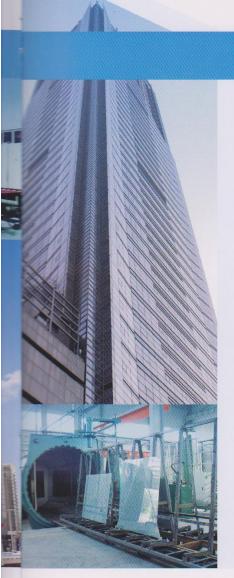


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Tempered Glass

- Different kinds of edges, holes and cutouts are available.
- Clear/Tined flat & curved tempered glass
 - ♦Min size: 300X300mm
 - ♦ Max size: 6000X2440mm
- Silk-screen printing tempered glass
 - ◆Min size: 300X300mm
 - ♦Max size: 4000X2440mm
- Thickness
 - ♦3-19mm
- Colour
 - ◆clear, bronze, ocean blue, dark blue, lake blue, ford blue, light green, dark green, light grey, dark grey, pink, yellow, golden.





Laminated Glass

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Thickness

◆6.38mm, 8.38mm, 10.38mm, 12.38mm, 16.38mm, 20.38mm, 6.76mm, 8.76mm, 10.76mm, 12.76mm, 16.76mm, 20.76mm, 24.76mm, 30.76mm.

Colour

◆clear, bronze, blue, green, grey, pink, etc.

Max size

◆3660x2440mm

Normal size

- ◆1830x1220mm, 2134x1524mm, 2000x1500mm, 2200x1650mm, 2440x1830mm, 3050x2134mm, 3050x2440mm, 3210x2050mm, 3210x2250mm, 3300x2134mm, 3300x2250mm, 3300x2440mm, 3660x2440mm.
- super quality clear & colour pvb film of 0.38mm and 0.76mm, customer's special requirement is also available.

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Mirror

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Aluminum mirror

- ◆Thickness: 2mm, 3mm, 4mm, 5mm, 6mm, 8mm.
- ◆Max size: 2440x1830mm
- ◆Normal size: 2440x1830mm, 2000x1500mm, 2000x1600mm, 2134x1370mm, 2134x1524mm, 2134x1676mm, 2134x1830mm, 2200x1370mm, 2200x1650mm.

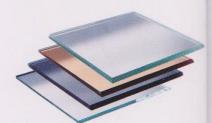
Silver mirror

- ◆Thickness: 2mm, 3mm, 4mm, 5mm, 6mm, 8mm
- ◆Max size: 3300x2440mm
- ◆Normal size:

3300x2134mm, 2000x1500mm, 2000x1600mm, 2134x1524mm, 2134x1676mm, 2134x1830mm, 2200x1370mm, 2200x1650mm, 2440x1830mm, 3050x2134mm, 3210x2134mm, 3210x2250mm.

Safety mirror

- ◆ Safety mirror is with vinyl film back, when the mirror is broken, the splinter will be attached on.So it will not hurt people. The mirror is mainly used for furniture, waiting room, bath room, etc.
- ◆Mirror colour: clear, green, blue, bronze, pink, yellow, dark, grey





Sheet Glass

源自中华 服务天下

Clear & tinted sheet glass

Thickness

◆1.1mm, 1.2mm, 1.5mm, 1.7mm, 1.8mm, 2mm, 3mm, 4mm, 5mm, 6mm.

Colour

◆clear, green, blue, bronze, grey, dark grey

Max size

◆1830x2440mm

Normal size

- ◆610x914mm 600x900mm 1220x914mm 1220x1016mm 1830x1220mm 2440X1830mm
- ◆We can supply sheet glass which can be cut into smaller sizes for photo frame.



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Patterned Glass/figured Glass

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◆ 蓝色地图 Blue Map



◆ 茶色雨花 Bronze Rain-B



◆ 琥珀色七巧板 Amber Karatachi



◆ 灰色蜂窝 Grey Beehive



◆ 茶色梦幻 Bronze Dream



◆ 绿色海棠 Green Flora



◆ 茶色钻石 Bronze Diamond



◆ 茶色地图 Bronze Map



◆ 绿色香梨 Green Nashiji

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Wired Glass

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Thickness

♦6mm, 6.5mm, 7mm

Colour

◆Clear, blue, green, bronze, amber, grey.

Max size

◆2500x1530mm

Normal size

◆1830x2520mm, 1830x2440mm, 1500x2000mm, 1500x2500mm, 1524x2134mm.



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