

Test Report List

KristalBond performance is tested by leading certification, inspection and testing agencies in Japan, Singapore and Malaysia.

Solar Optical Performance

ISO 9050:1990(E) Glass in building -Determination of light transmittance, solar direct transmittance, total solar energy transmittance and ultraviolet transmittance and related glazing factors.

Weathering Test

ISO 16474-2: 2013 Paint and varnishes -Artificial weathering and exposure to artificial radiation.

ASTM D2244-93 Calculation of colour differences from instrumentally measured colour coordinates.

ASTM E313-96 Calculating yellowness and whiteness indices from instrumentally measured colour coordinated.

Road Safety Test

JIS R3211:1998 Safety glazing material for road vehicles.

JIS R3212:1998 Test method for safety glazing material for road vehicles.

Thermal Resistance & Health Safety Test

ISO 8990:1994 Thermal Insulation -Determination of steady-state thermal transmission properties - Calibrated and guarded hotbox. Determination of thermal transmittance (U) (test equivalent to JIS A 4710:1989 - Test method of thermal resistance for windows and doors.)

EN71:Part 3: 1994 Safety of toys: Part 3: Migration of certain elements.

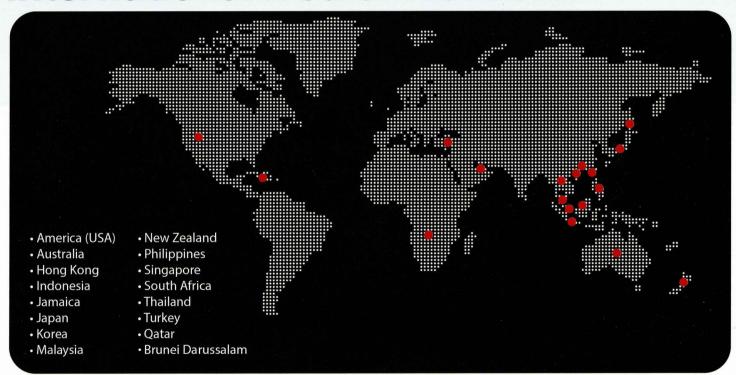
Safety of the product tested according to Japan Sanitation Law, under "Apparatus and Container - packages".

Scratch Hardness Test

JIS K5600-5-4: 1999 Testing methods for paints -- Part 5: Mechanical property of film --Section 4: Scratch hardness (Pencil method)

Krista Bond is patented in 16 countries; it is also a registered trademark.

International Dealer Network





KristalBond Japan Incorporated

Level 4, Nagoya Nikko Shoken Building,

3-2-3 Sakae, Naka-ku, Nagoya 460-0008, Aichi, Japan

T (052)-269-8670 F (052)-269-8671

E info@kristalbond.com

International Sales Office

KristalBond Technologies Sdn Bhd (598680-K) 44, Jalan Keluli AJ7/AJ, Pusat Perniagaan Bukit Raja 40000 Shah Alam, Selangor, Malaysia

T+603-3342 0969 F+603-3342 4669 www.kristalbond.com

Nuhaus Enterprise

Brunei Dealer

*Disclaimer:

The information contained in this brochure is given in good faith, to the best of its knowledge and based on current procedures in effect. However, the Manufacturer makes no warranty or guarantee that the results or effectiveness or safety of the product or any design described herein, will be obtained under end-use conditions. Since actual use of the product beyond their control, the manufacturer should not be held for any mishandling of the product. Each user should conduct their own test to determine the suitability of the material

Unit 5 & 6, Block B, Eng Ho Complex, Spg 217-5-54, Jalan Gadong Estate, BE3119, Negara Brunei Darussalam. T: (673) 242 0553 F: (673)242 0563

E: nuhaus.brunei@gmail.com

Project References

From around the world

Large Glass



Telford Cinema, Hong Kong



Bin Hendi Avenue, Dubai



Starhill Gallery Glass Facade, Malaysia

Curved Glass



Samsung Digital Media Plaza, Malaysia



Private Residence, Malaysia



Snow Dome, Abu Dhabi

Airports



Chengrai Airport, Thailand



Chiang Mai Airport, Thailand

Shopping Malls



Fiji Islands



Marina Mall Skylights, Abu Dhabi



Dubai Festival City Atrium, Dubai

Hotels & Resorts



Nishitetsu Grand Hotel, Japan



Sepang Gold Coast, Golden Palm Villas, Malaysia



Shangri-la Hotel Putrajaya, Malaysia

Retail & Public Places



Tokyo Big Site, Japan



Hanshin Race Course,



Yamaguchi Prefecture Industrial Tech Institute, Japan



Saga-Ken Women Centre & Lifelong Study Centre, Japan



Harley Davidson, Malaysia



AM Finance, Malaysia



Chain Stores

KFC Outlet, Japan



Starbucks, Malaysia



7-Eleven, Malaysia



Mahsuri Intl. Exhibition Centre. Malaysia



Al Masaood Central Parts, Abu Dhabi

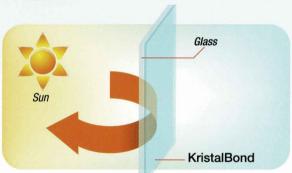


QNB Bank, Qatar

KristalBond Performance Infrared Clean Float Cleans Grown Visible Light Visible Light Transmittance 10% Ultraviolet Transmittance 1% INTERIOR INTERIOR

Note: Values show above are based on laboratory results. Actual values may vary.

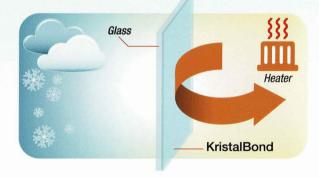






- Reduce air-conditioning usage & increase its efficiency
- Increase comfort, especially near glass areas
- Enjoy cooler & more comfortable living environment





KristalBond reduces heat loss from windows by retaining far infrared generated indoor. It enables you to:

- Retain heat indoor
- Reduce cold draft and increase comfort
- Reduce condensation on windows *1



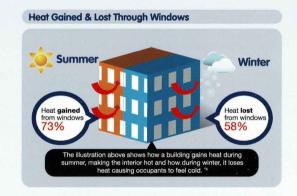


Energy savings (Power Consumption) by Universiti Malaya

ROOM	1st - day	6th - day	7th - day	Power / day (kWh)	Power for 30 days	7th - day
ROOM 1 (UNCOATED)	623.8	678.7	693.6	9.971428571	299.1429	RM76.71
ROOM 2 (COATED)	774.3	815.1	828	7.671428571	230.1429	RM53.67

Up to 30% Energy Savings

With a 2 – 3°C reduction in temperature, you are able to save up to 30% on your electrical consumption on a yearly basis.*2





99%
Ultraviolet cut

KristalBond is formulated to block off 99% of the sun's UVA and UVB to:*5

- · Protect from skin pigmentation and skin cancer
- Keep your furniture, displays and valuables from accelerated fading and ageing.
- Keep out insects that are attracted to UV emitting from indoor lights



KristalBond Spectral Performance Data

Product Name	Thickness	Visible Light (%)			Solar Radiation (%)		
	(mm)	Trans	Ref	Abs	Trans	Ref	Abs
KristalBond	6	70.8	10.0	19.2	34.6	8.5	56.9
Clear Float	Ĝ	88.6	7.9	3.5	77.9	6.9	15.2

UV Trans (%)	SHGC	Shading Coefficient	U-Value (W/m²K)
0.0	0.51	0.58	3.46
59,2	0.82	0.93	5.83

70% Visible Light Transmission

Harvest natural light and save on artificial lighting during the day with KristalBond. A colourless and ultra clear coating, KristalBond reduces reflection on glass due to its crystal like nature.

Only 7 microns thin with a low haze level of 0.8, KristalBond owes its super transparency to nanotechnology. Colourless, KristalBond preserves your window's originality, keeping it clear without any distortion.

6 15 years Durability

With a 6H hardness, KristalBond has a high scratch resistence, it does not peel, de-metalize or require special maintenance. It does not incinerate nor pose any toxic danger.



KristalBond, glass in liquid form, can be coated on curved glass and large glass areas seamlessly for a perfect smooth finishing. Its superior self leveling properties give KristalBond the finishing edge over solar control films.

