

MAKE GLASS SAFER. BUILD STRONGER, LIGHTER.

NewGlassTechnology

Where progress never stops

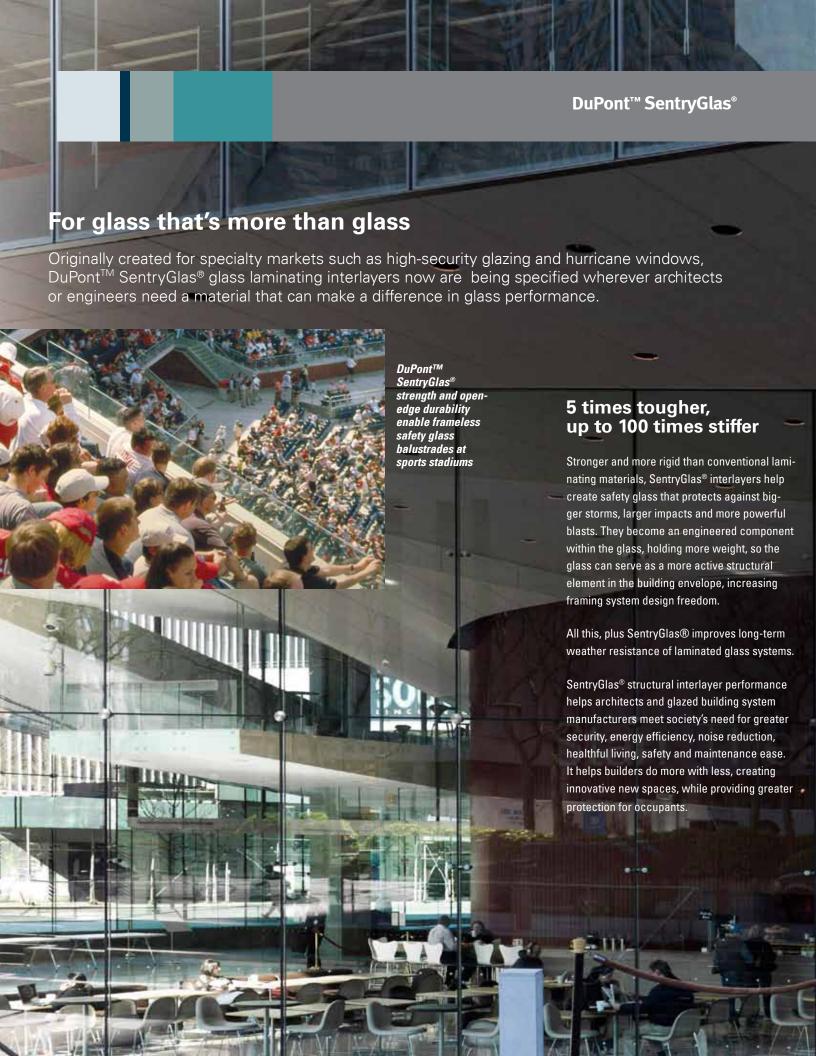
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Make glass safer. Build stronger, lighter.

Low Deflection, Stronger Glass Before and After Breakage

SentryGlas® is up to 100 times stiffer and 5 times stronger than traditional interlayers, helping thinner laminates meet specified wind loads or structural requirements. In many applications laminated glass made with SentryGlas® acts like an engineered composite, with low mechanical strain under loads, and outstanding post-breakage resistance to creep and collapse.

Bolted and Frameless Glass

Laminated glass made with stiff SentryGlas® can tolerate high stress loads. The interlayer becomes a higher performing structural layer in the multilayer composite. This gives architects and framing system engineers greater design freedom, useful in creating innovative new bolted and point-supported systems. Clean, smooth, expansive façades can now be engineered with minimal metal exposure and reduced need for four-sided edge framing.

A New Era For Exposed Edges

Gone are the days when laminated safety glass needed to be edge-framed partly to hide potential edge defects after weathering. Compared with many commonly used interlayers, the advanced DuPont polymer used in the SentryGlas® interlayer is less susceptible to moisture intrusion or other weathering effects.

Butt-Joined Freedom, Too

In testing with widely used glazing sealants, butt-joined panels of laminated glass made with SentryGlas® interlayers show excellent compatibility, remaining free of clouding or other edge defects after years of weather exposure and inspection. Butt-joined exterior glazing made with SentryGlas® and installed in buildings around the world continues to show outstanding reliability and freedom from edge defects.

Effortless, Ready Protection

By installing windows, doors, canopies, balustrades or curtain wall systems made with DuPont™ SentryGlas®, building owners get full-time protection against wind-borne debris, the leading cause of window failure and property loss. And unlike owners who rely on shutters, owners who install glass made with Sentry-Glas® don't have to be home to deploy their safety system when weather threatens. Their protection is already in place, guarding their investment in accordance with the world's most demanding building codes.

(It can help defend against blasts, burglaries and break-ins, too.)

More Daylight, Less Worry

Because SentryGlas® is stiffer and tougher than conventional interlayers, it can withstand greater impacts (stronger winds and larger objects) in materials-saving thin glazing installations. It also can be used in larger panes of storm-protected glazing, increasing the vision area and reducing framing material and installation labor.

The extra stiffness of SentryGlas® also helps create a flatter glazing surface, with low post-installation warpage. Reduced deflection helps the glass withstand greater wind forces ... even when dry-glazed.

DuPont™ SentryGlas®



DuPont™ SentryGlas®ARCHITECTURAL SAFETY GLASS INTERLAYER



Typical Physical Properties of DuPont™ SentryGlas® Interlayer

Property	Units Metric (English)	Value	ASTM Test
Young's Modulus	MPa (kpsi)	300 (43.5)	D5026
Tensile Strength	MPa (kpsi)	34.5 (5.0)	D638
Elongation	%	400	D638
Density	g/cm³ (lb/in³)	0.95 (0.0343)	D792
Flex Modulus 23°C (78°F)	MPa (kpsi)	345 (50)	D790
Heat Deflection Temperature at 0.46 MPa	°C (°F)	43 (110)	D648
Melting Point	°C (°F)	94 (201)	(DSC)
Coefficient of Thermal Expansion (–20°C to 32°C)	10 ⁻⁵ cm/cm °C (mil/in °C)	10–15 (0.10–0.15)	D696

Permanent protection, with a view...

that's how residents and building owners in hurricane- and cyclone-prone areas describe the carefree storm-preparedness of tough, impact-tested safety glass windows made with SentryGlas®



Helping builders and owners meet tough new wind storm codes

In areas subject to high winds or coastal storms, building owners who install protective laminated glass doors and windows often qualify for more affordable insurance.

DuPont[™] SentryGlas® interlayers have been tested and accepted for use in hundreds of impact-resistant glazing systems meeting some of the toughest building codes in the world.

Protection that stays in place, 24 x 7

At hospitals and in other buildings where emergency preparedness matters most, and where "boarding up" isn't practical, specifiers often choose safety glazing made with SentryGlas® to meet or exceed local building codes.

Make glass safer. Build stronger, lighter.

Available From Leading Laminators And Glazing System Installers

Experienced glass laminators, framing and facade system specialists and glazing contractors are available worldwide to meet the needs of architects and system designers specifying DuPont™ SentryGlas®.

REGIONAL CONTACT CENTERS

FOR DUPONT™ SENTRYGLAS®

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Spanish energy giant, Endesa, fills its Madrid headquarters atrium with daylight using an energy-efficient, ventilated glass roof made with DuPont™ SentryGlas®.

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