

## **TROSIFOL® at "glasstec 2004"**

### **PVB film specialist extends and optimizes its product range**

After two sluggish business years for the glass industry, "glasstec 2004" is sending out a ray of hope. Over 1100 exhibitors from 43 countries have already bindingly registered for this year's trade fair in Düsseldorf and will be presenting their products and services on total exhibition space of about 65,000 square metres. Exhibitors from Australia and New Zealand will also be exhibiting for the first time in North-Rhine/Westphalia's capital city.

TROSIFOL is also anticipating new impetus. The manufacturer of PVB films for laminated safety glass is devoting special attention to the international sales markets and particularly to Asia, Russia and North America.

TROSIFOL (German acronym for "Troisdorf safety film"), European market leader in PVB films for laminated safety glass in architectural glazing, has extended and optimized its product range in the last few years and is placing special emphasis at this year's glasstec on its unsurpassed expertise as a much-in-demand and experienced supplier of solutions for the glazing ideas of the future.

### **TROSIFOL and architecture – a longstanding bond with a future**

This is where TROSIFOL has a large selection of products for a huge variety of applications. Laminated safety glass from TROSIFOL is distinguished by outstanding properties in terms of safety, long-term strength, noise and UV protection, and optical quality. It goes without saying that it satisfies all the requirements of the relevant quality standards. The product range comprises the successful standard products – MB, PR and MV – as well as the noise-insulated PVB SOUND CONTROL films and the TROSIFOL COLOUR range. The standard products are available in film widths of 0.38 to 1.52 millimetres. The new COLOUR range encompasses selected

standard colours in roll widths up to 2.25 metres and continuous lengths of 30 metres plus.

### **SOUND CONTROL sound insulation film**

This special acoustic film made of PVB features outstanding sound insulation properties ( $R_w = 37$  dB for 44.2). Laminated safety glass made with it satisfies quality standards EN 12543, EN 12600 and EN 356 – and displays the familiar outstanding optical properties. Available are films in thicknesses of 0.76 to 1.52 millimetres. This product was awarded general approval (DIBT) No. Z-70.3.89 by the German building supervisory authorities in December 2003.

### **TROSIFOL SOLAR**

This is a new PVB film specially developed for laminated glass produced with integrated solar cells. Production takes place in a serial single-stage vacuum process. Solar cell modules produced with TROSIFOL SOLAR have a very long service life and feature the same excellent safety properties as standard laminated safety glass.

### **DECORAL**

DECORAL is a new PVB design film for the production of laminated safety glass. The variety of decorations is huge and the applications for indoor and outdoor glazing are unlimited. This film is being developed and marketed jointly with our Italian partner Decoral System.

### **Good visibility in cars as well**

TROSIFOL VG is the standard product for automotive glazing. Windscreens and side windows with this product have outstanding properties in terms of active and passive safety, UV protection and long-term strength. At the same time, it satisfies all the relevant quality standards such as ECE-R 43 and ANSI Z-26.1. The product range includes both crystal-clear, transparent films as well as a big selection of colour films and shaded products in a thickness of 0.76 millimetres.

TROSIFOL PG is a special product with an asymmetrical surface structure for solar control glazing in combination with coated PET films.

A new innovative PVB film is TROSIFOL MV-SC with outstanding sound insulation properties: Up to 8 dB better than conventional vehicle glazing.

### **New!**

One of the keys to TROSIFOL's success has always been the development of innovative products in close cooperation with the customer. A good example of such an innovation project is the product "NC Technology". This technology will make it possible to store or transport TROSIFOL products at room temperature without cooling or a PE interlayer. A patented formulation prevents the film layers from sticking together.

### **TROSIFOL product range**

With a maximum thickness tolerance of only 0.02 mm over a width of 3.21 m and compliance with extremely tight production tolerances, TROSIFOL delivers the prerequisites for high-grade laminated glass. Another feature is the use of separate process steps to precisely determine the film's moisture content, which is important for controlled adhesion in the laminate. The applications of TROSIFOL in the production of laminated glass extend from the simple lamination of two panes of glass and one film through to multiple safety glass lamination for special applications with at least two layers of film sandwiched between three panes of glass. Depending on the glass or film thickness and the number of laminations, laminated safety glass is capable of resisting impact, penetration, bullets and explosion.

TROSIFOL is available in thicknesses of 0.38, 0.76, 1.14 and 1.52 mm, in lengths of up to 1,000 m and in widths of up to 3.21 m, so-called jumbo rolls. All film types can be supplied in two forms – firstly as a cooled film, which is stored at a maximum temperature of 8°C; and secondly provided with a special PE interlayer to prevent the PVB sheets sticking together at room temperature.

The raw material for all TROSIFOL films is polyvinyl butyral (PVB). PVB has been in use as an interlayer in laminated safety glass since the middle of the Thirties. With added plasticizers, PVB – a resin in powder form – becomes sufficiently elastic for use as a safety glass film. The experience gained from the processing of this raw material

since 1953 is one of the main reasons for the technical sophistication of TROSIFOL today. Thanks to ongoing research and development, TROSIFOL has become Europe's leading manufacturer of films for structural glazing. Today TROSIFOL operates a worldwide distribution network comprising several subsidiaries, agents and warehouse sites, and markets its products in over 75 countries. Production is carried out at the parent plant in Troisdorf near Cologne, Germany, and in Nizhny Novgorod, Russia.

TROSIFOL is certified to ISO/TS 16949 and DIN EN ISO 9001:2000. The brand is now also making a big impression on the automotive OEM market.

**TROSIFOL looks forward to seeing you.**

**glasstec 2004, Düsseldorf, from 9th to 13th November 2004**

**Open daily from 9 a.m. to 6 p.m.**

**Hall 10, Stand D 40**

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This text comprises 6,449 characters in 124 lines. You can also download it from the Internet at: [www.trosifol.com](http://www.trosifol.com)

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