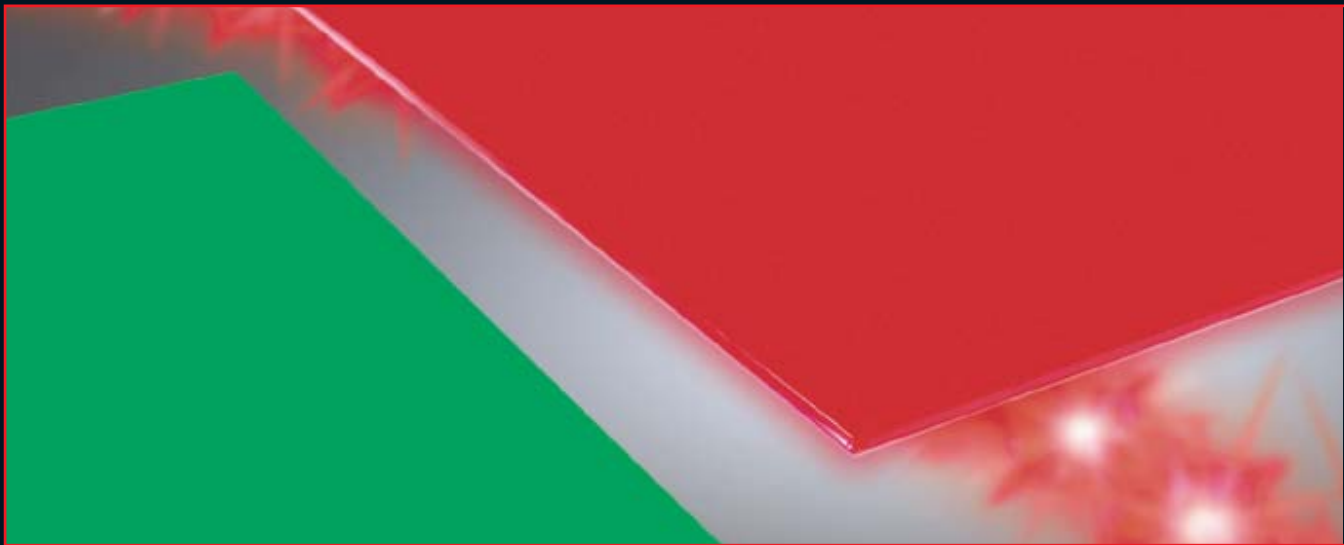


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Röhm Plexiglas

[PLEXIGLAS® truLED]

Brilliant, Round-the-Clock Messages
in the Original Colors of Light Sources



True Colors with PLEXIGLAS® truLED

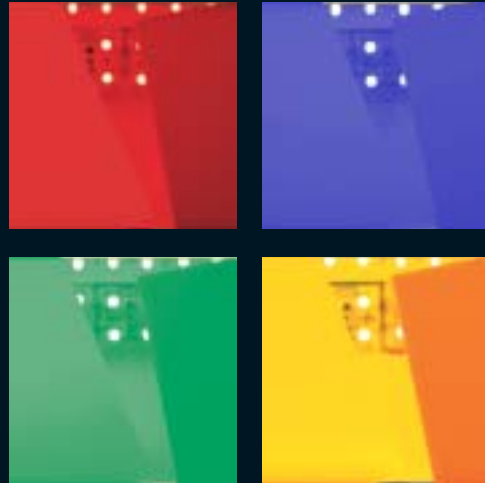
Modern advertising messages make high demands on the design, variety of shapes, luminous efficiency, useful life, economy and technical safety of lighted signs. Systems incorporating PLEXIGLAS® truLED meet these requirements perfectly in combination with LEDs or colored neon tubing.

Lamps and signage incorporating LEDs or colored neon tubing with narrow light emission bands call for PLEXIGLAS® colors with

- high transmission in this band range (> 30 %),
- very good light diffusion (> 0.7) and
- good color consistency by incident and transmitted light.

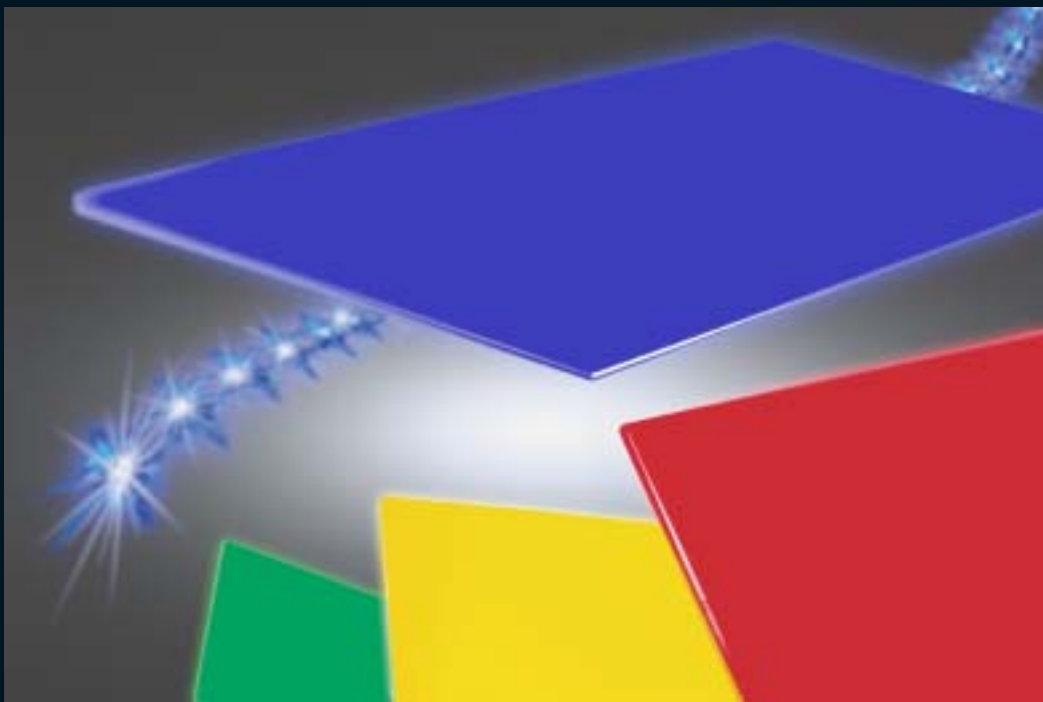
PLEXIGLAS® truLED from Röhm Plexiglas is the only product of its kind throughout the world (patent pending), and was specially developed for this application.

The transmission of PLEXIGLAS® truLED is adjusted to the same wavelength ranges as those of red, green, yellow or blue LEDs (or corresponding neon tubing). This guarantees that the color emitted by the given light source is transmitted without alteration.



Our pictures on the right show standard PLEXIGLAS® signage colors and those on the left, PLEXIGLAS® truLED colors optimally adjusted to the hues and wavelengths of the light sources used.

Moreover, PLEXIGLAS® truLED offers lower energy consumption at high color efficiency.



PLEXIGLAS® truLED is simultaneously designed to provide excellent light diffusion. This allows the construction of ultraslim illuminated signs (from 40 mm).



PLEXIGLAS® truLED colors are formulated to give virtually the same impression by incident light (daytime effect) and transmitted light (night-time effect). Thus, advertising messages appear in the same light by day and by night.



The lighting characteristics (light transmission/diffusion) of PLEXIGLAS® truLED are fully retained if the edges are line-bent at a minimum radius of twice the sheet thickness. In combination with LEDs, new, complex designs offering uniform illumination can therefore be realized with the greatest of ease.



PLEXIGLAS® truLED

Hints for Installation:

PLEXIGLAS® truLED can be employed for returns and faces of lighted signs. It can be used in connection with all conventional, commercially available materials for signage applications.

PLEXIGLAS® truLED is suitable for use both with LEDs and with colored neon tubing.

Sales Range:

PLEXIGLAS® truLED

- Blue 2921
- Green 2918
- Yellow 2919
- Red 2920
- White 2923

Standard size: 3050 x 2050 mm

Thicknesses: 3, 4 and 5 mm

Other colors adjusted to the respective hues and wavelengths of the light sources can be manufactured on request, after clarifying the specific requirements.

Technical Data:

| Color | LED wavelength range nm | Suitable grade of PLEXIGLAS® truLED |
|--------|-------------------------|-------------------------------------|
| Blue | 450 to 490 | Blue 2921 |
| Green | 505 to 550 | Green 2918 |
| Yellow | 570 to 590 | Yellow 2919 |
| Red | 610 to 630 | Red 2920 |
| White | visible range | White 2923 |



Certified to DIN EN ISO 9001 (Quality)
and DIN EN ISO 14001 (Environment)

Our technical advice on the applications of our products is given without obligation. The buyer is responsible for their use and processing, and is also liable for observing any third-party rights. Technical data concerning our products are typical values. Subject to alteration.

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