

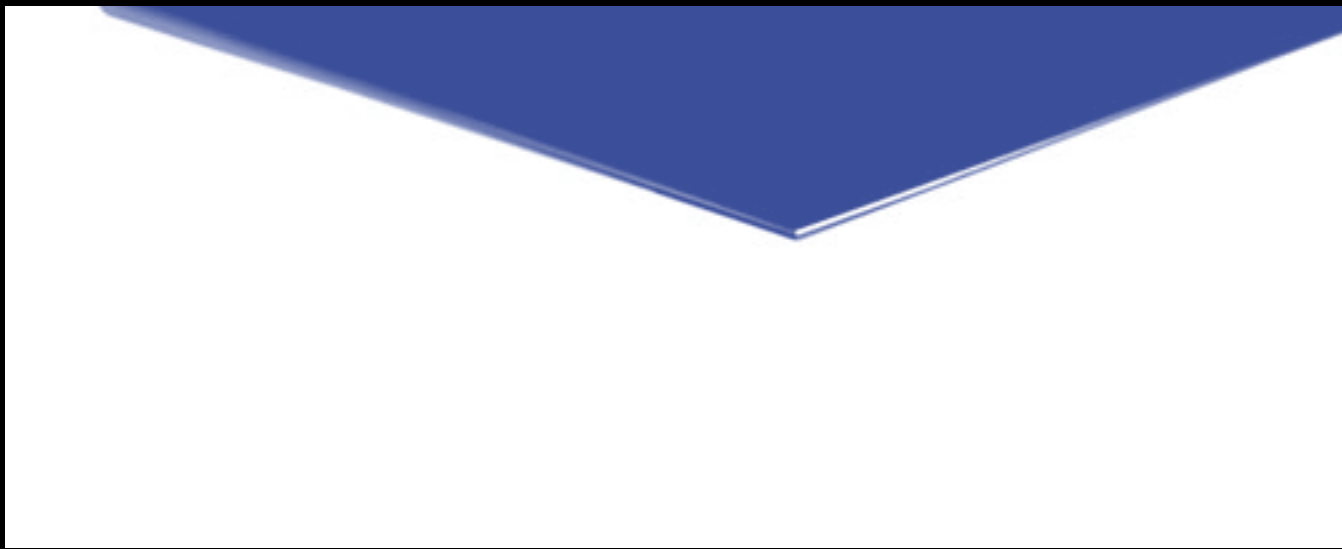
**degussa.**

*creating essentials*

**including eight new  
corporate identity colors!**

## **PLEXIGLAS truLED®**

Brilliant Colors for LED Applications



Light-emitting diodes (LEDs) have gained an increasing share of the market for lighting fixtures in past years, and are an important addition to conventional lamps such as neon tubing, fluorescent lamps etc. LEDs are also becoming more and more popular for signage, shopfitting and tradeshow booth construction because of their numerous advantages (long service life, versatile applications, low maintenance costs etc.). Our familiar PLEXIGLAS truLED® product range offers ideal properties especially for backlighting with LEDs, such as maximum transmission and optimum light diffusion.



The transmission of PLEXIGLAS truLED® is adjusted to the same wavelength ranges as those of red, green, yellow, blue or white LEDs (or corresponding neon tubing). This combination of properties makes it possible to employ modern LED technology with maximum efficiency. 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 PLEXIGLAS truLED® range comprises a total of 13 different hues. Eight of these correspond to classical corporate identity

(CI) colors and are therefore comparable to the well-known PLEXIGLAS® GS grades Red 568, Red 505, White 072, Blue 601, Green 710 etc. by incident light. However, they show much higher luminance than standard products when backlit with colored LEDs (see table). The color by incident light of the other five shades is adjusted to the given LED color. They offer maximum transmission or luminance as compared with standard materials (see table).



PLEXIGLAS truLED® Grade	Comparable Color by Incident Light (Standard Grade)	Relative Brightness/ Luminance* as Compared with Standard Grade	
Corporate Identity Colors	White WH72	PLEXIGLAS® GS White 072	+ 53 %
	Yellow 1H70	PLEXIGLAS® GS Yellow 370	+ 54 %
	Yellow 1H74	PLEXIGLAS® GS Yellow 374	+ 54 %
	Orange 2H41	PLEXIGLAS® GS Orange 410	+ 100 %
	Red 3H15	PLEXIGLAS® GS Red 505	+ 50 %
	Red 3H68	PLEXIGLAS® GS Red 568	+ 89 %
	Blue 5H60	PLEXIGLAS® GS Blue 601	+ 33 %
	Green 6H71	PLEXIGLAS® GS Green 710	+ 100 %
LED Colors	Blue 2921	LED blue, 450 to 490 nm	+ 152 %
	Green 2918	LED green, 505 to 550 nm	+ 218 %
	Yellow 2919	LED yellow, 570 to 590 nm	+ 156 %
	Red 2920	LED red, 610 to 630 nm	+ 256 %
	White 2923	LED white, visible wavelengths	+ 109 %

\*Measured using an LED test kit (Hansen Neon GmbH, Germany), distance between PLEXIGLAS® and LED 40 mm, luminancemeter Minolta Chroma Meter, CS-100


Despite these outstanding light transmission values, PLEXIGLAS truLED® shows excellent light diffusion, which means there are no undesired hot spots or fluctuations in luminance even in ultraslim illuminated signs.

PLEXIGLAS truLED® is available in the standard size 3050 x 2030 mm, and in a standard thickness of 3 mm. Further corporate identity colors and thicknesses as well as satin surfaces can be manufactured on request.

All PLEXIGLAS truLED® grades show the same fabrication and handling properties as those of the standard grade PLEXIGLAS® GS 233.

Further information on our products and suppliers can be found on our Internet site [www.plexiglas.de](http://www.plexiglas.de).





**Degussa**  
**Methacrylates**

**Röhm GmbH**  
certified to DIN EN ISO 9001 (quality) and  
DIN EN ISO 14001 (environment)

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