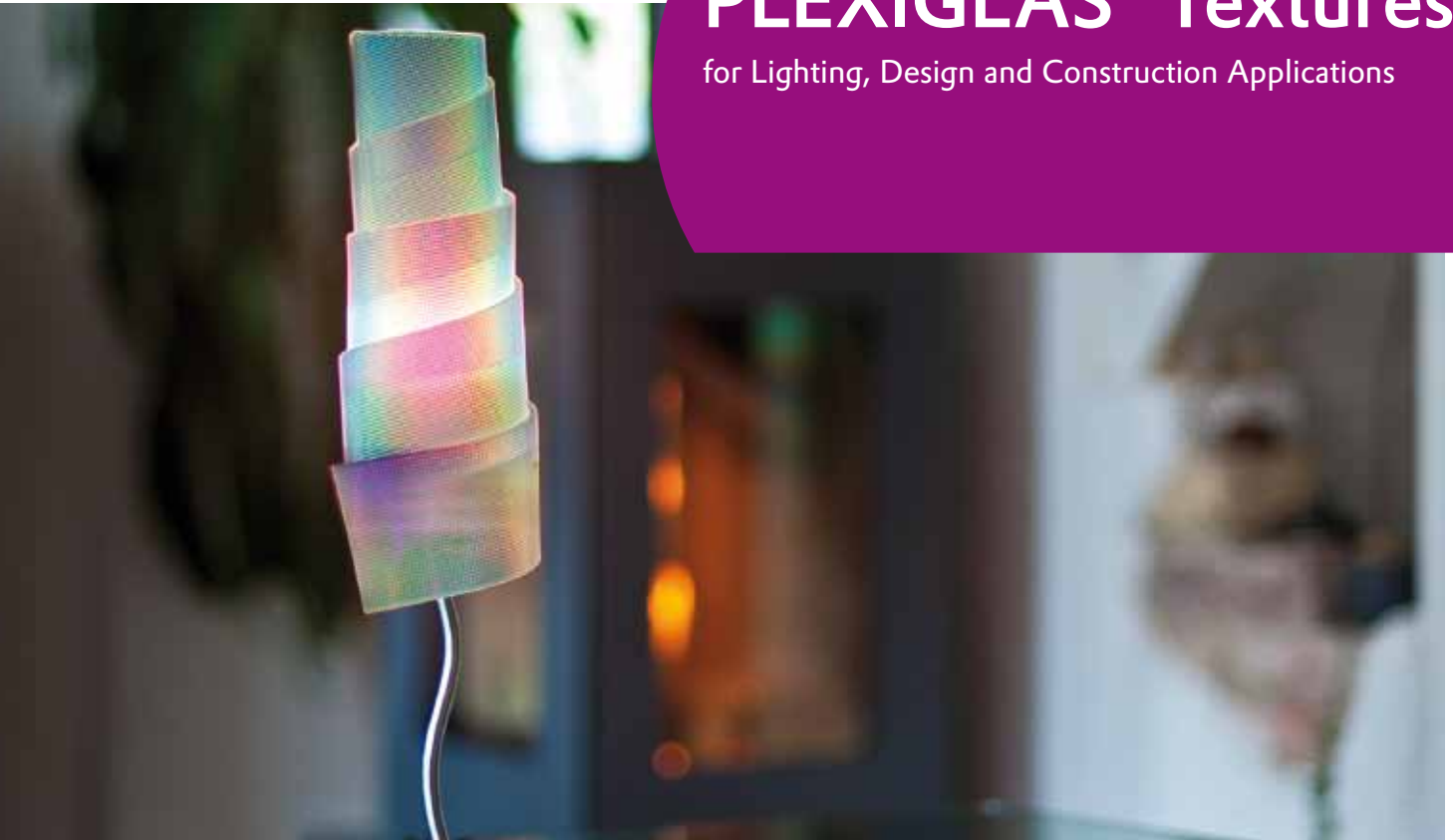


PLEXIGLAS® Textures

for Lighting, Design and Construction Applications



PLEXIGLAS® 

Time leaves no trace. This we guarantee!

Faded colors are a thing of the past. We guarantee that solid sheets sold under the PLEXIGLAS® trademark will retain their color for 10 years. Color changes within ten years are so slight that they are not visible upon normal visual inspection. There is no yellowing or brittleness. PLEXIGLAS® is the ideal material for indoor and outdoor applications that lasts for decades. We give a 30-year guarantee that our clear-transparent solid sheets sold under the PLEXIGLAS® trademark will retain the highest possible light transmission without yellowing.

Textures and colors to suit every taste

Classical and modern textures combined with proven and modern colors offer a multitude of options for every type of design and application, from rustic to elegant, unobtrusive or striking.

Bright and discreet

PLEXIGLAS® with a textured surface acts as a sight barrier but lets in plenty of light.

Unlimited scope for design

Any desired shape can be obtained with the greatest of ease. PLEXIGLAS® can be drilled, sawed, bonded and routed without any problems. With a textured surface, it can also be cold-curved or permanently thermoformed. This offers completely new possibilities for achieving surprising effects.

Lightweight yet stable

PLEXIGLAS® weighs half as much as glass but has 11 times its impact strength. Those are major benefits during transport, installation, machining or fastening.

Safety is part of the package

Approvals for balcony balustrades, machine guards and vehicle construction offer impressive proof: PLEXIGLAS® is tough and impact-resistant. Even if breakage should occur in extreme cases, it produces no dangerous slivers.

Non-smokers preferred

PLEXIGLAS® is non-toxic in the event of fire. It forms no acutely toxic gases and burns almost without smoke. Escape and rescue routes remain clearly visible.

PLEXIGLAS® is a green material

From production to recycling, the environmental impact of PLEXIGLAS® has been examined in an ecological balance according to DIN ISO 14040ff and received a positive rating. Apart from its longevity, PLEXIGLAS® shows convincing recyclability. It can be completely recycled, both by chemical conversion to its starting materials and by direct reuse. Today, corporate decisions focus on the interests of present and future generations as well as economic, ecological and social concerns. Based on this awareness of our corporate responsibility, we develop and produce PLEXIGLAS® by means of environmentally friendly processes. We ensure that our products are environmentally compatible and contain no harmful substances. PLEXIGLAS®, for example, is free from hormone-related substances and heavy metals. It contains neither asbestos nor formaldehyde, CFCs, PCBs, PCT nor plasticizers. In addition, PLEXIGLAS® complies with regulations for use in toys and packaging.



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Lighting applications

Stylish elegance

Discover the variety of classical design for stringent demands in the lighting sector with PLEXIGLAS® Textures. The different surface textures provide extremely attractive lighting effects in floor lamps, under-cabinet, fitted or pendant lights. The fine textures create a warm and soft ambient light.

Eye-catcher

The textured surface enhances the spectrum of colors when viewed from different angles. That makes lighting elements in ceilings and floors the center of attention. PLEXIGLAS® Textures used in Radiant grade for interior design in bars, clubs and lounges catches the eye and draws admiring glances. Designers and creative professionals are enthused by its mirror-like reflections and ever-changing kaleidoscope of colors.

Classical combinations

PLEXIGLAS® Textures lend themselves to a variety of uses, both for indoor and outdoor lighting. The tougher textures are preferentially used e.g. in street lighting applications.



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Construction applications

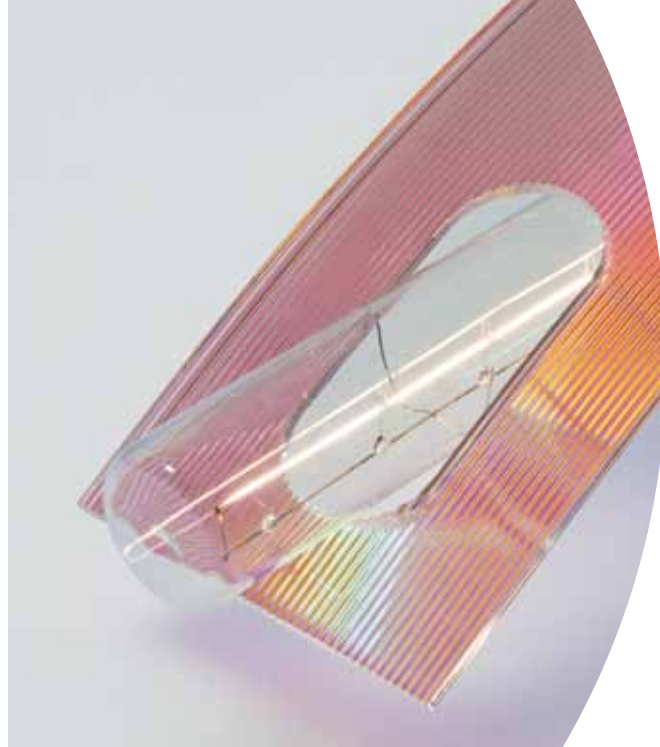
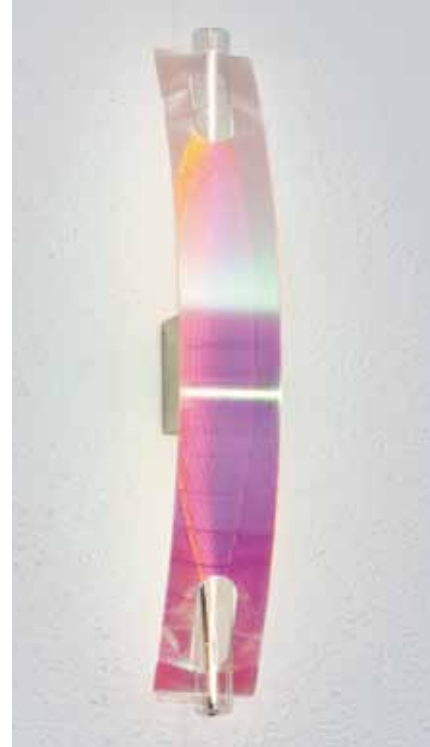
A generously sized balcony, attractive railings, smart porch or door glazing often add the finishing touches to your home and enhance your feeling of comfort.

We have the right texture for every application. Canopies, balconies and guardrails also play an essential role. They protect you and your children from falling objects or from falling from a dangerous height.

Generally speaking, protection from falling can be used indoors or outside. Sheets used for these applications must comply with the requirements for load-bearing capacity in line with DIN EN 12600 and must ensure, for example, that no slivers are produced upon breakage that could cause injuries.

But that does not rule out solutions that are not specified by the German Technical Regulations for the Use of Fall-Proof Glazing (TRAV). In this case, their suitability must be proved according to the relevant technical building regulations (ETB in Germany).





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Design applications

Magical play of color

The new PLEXIGLAS® Textures in Radiant grade helps to create magical plays of color and unique designs.

Even in ambient light, the material offers interesting color impressions, which can be enhanced by lighting or backlighting. These can be put to good effect in store fixtures or exhibition booths.

Both in decorative applications and lighting fixtures, this material lets you give free rein to your imagination.

Design pure and simple

Use fresh colors and modern textures to design items of furniture such as shelving, cupboard doors and wardrobes. Enjoy the combination of scintillating brilliance and stylish matte effects.



PLEXIGLAS® Textures in comparison

| Texture | Color | Color number | Transmission * | Standard size |
|--|---------|--------------|----------------|--|
| PLEXIGLAS® Textures Pyramid (Z) | Clear | 0A000 | 92% | 2050 mm x 1650 mm |
| | Radiant | 0A008 | 13% | 3050 mm x 1300 mm |
| PLEXIGLAS® Textures Ice Crystal (E) | Clear | 0A000 | 92% | 3050 mm x 2050 mm |
| | Grey | 7A007 | 75% | 3050 mm x 2050 mm |
| | Brown | 8A470 | 62% | 3050 mm x 2050 mm |
| PLEXIGLAS® Textures Crimp (CL) | Clear | 0A000 | 92% | 2050 mm x 1650 mm |
| | Brown | 8A470 | 62% | 2050 mm x 1650 mm |
| PLEXIGLAS® Textures Raindrop/Pinspot (TK) | Clear | 0A000 | 92% | 3050 mm x 2050 mm |
| | Brown | 8A470 | 62% | 3050 mm x 2050 mm |
| PLEXIGLAS® Textures Honeycomb (W) | Clear | 0A000 | 92% | 2500 mm x 1650 mm 2050 mm x 1650 mm |
| | Radiant | 0A008 | 13% | 3050 mm x 1300 mm |
| PLEXIGLAS® Textures Bark (B) | Clear | 0A000 | 92% | 2050 mm x 1650 mm |
| PLEXIGLAS® Textures Pearl (P) | Clear | 0A000 | 92% | 2050 mm x 1650 mm |
| PLEXIGLAS® Textures Ribbed (R) | Clear | 0A000 | 92% | 2050 mm x 1650 mm |
| | Radiant | 0A008 | 13% | 3050 mm x 1300 mm |
| PLEXIGLAS® Textures Tunis (TU) | Clear | 0F00 | 92% | 3050 mm x 2030 mm |
| | Red | 3C04 | 21% | 3050 mm x 2030 mm |
| | Blue | 5H03 | 61% | 3050 mm x 2030 mm |
| | Green | 6C12 | 81% | 3050 mm x 2030 mm |
| | Grey | 7C09 | 68% | 3050 mm x 2030 mm |
| | Kiwi | 6H07 | 41% | 3050 mm x 2030 mm |
| | Plum | 4H01 | 47% | 3050 mm x 2030 mm |
| PLEXIGLAS® Textures Swing (SW) | Clear | 0F00 | 92% | 3050 mm x 2030 mm |
| | Red | 3C04 | 21% | 3050 mm x 2030 mm |
| | Blue | 5H03 | 61% | 3050 mm x 2030 mm |
| | Green | 6C12 | 81% | 3050 mm x 2030 mm |
| | Grey | 7C09 | 68% | 3050 mm x 2030 mm |
| | Kiwi | 6H07 | 41% | 3050 mm x 2030 mm |
| | Plum | 4H01 | 47% | 3050 mm x 2030 mm |

* The light transmission is given as a typical value for 3 mm thickness. Measurement is performed with the textured side facing the light source. If the textured side is turned away from the light source, the transmittance may be slightly lower due to the texture. Exact values cannot be measured for technical reasons. The light transmission is measured according to test standard DIN 5036, Part 3. The values may vary depending on the type of measuring equipment used.

Product samples of the Textures



Pyramid (Z)
Clear



Ice Crystal (E)
Clear



Crimp (CL)
Clear



Raindrop/Pinspot (TK)
Clear



Honeycomb (W)
Clear

| Thickness (mm) | Construction applications | Design applications | Lighting applications | Suitable for outdoor applications | UV resistance, longevity |
|----------------------|---------------------------|---------------------|-----------------------|-----------------------------------|--------------------------|
| 3, 4, 5, 6, 8 | • | ••• | ••• | ••• | ••• |
| 3 | • | ••• | ••• | | • |
| 3, 4, 5, 6, 8 | ••• | •• | •• | ••• | ••• |
| 3, 4, 5, 6, 8 | ••• | •• | •• | ••• | ••• |
| 3, 4, 5, 6, 8 | ••• | •• | •• | ••• | ••• |
| 3, 4, 5, 6, 8 | ••• | • | •• | ••• | ••• |
| 3, 4, 5, 6, 8 | ••• | • | •• | ••• | ••• |
| 3, 4, 5, 6, 8 | ••• | • | •• | ••• | ••• |
| 3, 4, 5, 6, 8 | • | •• | ••• | ••• | ••• |
| 3 | • | •• | ••• | | • |
| 3, 4, 5, 6, 8 | ••• | • | | ••• | ••• |
| 3, 4, 5, 6, 8 | • | ••• | ••• | ••• | ••• |
| 3, 4, 5, 6, 8 | • | ••• | ••• | ••• | ••• |
| 3 | • | ••• | ••• | | • |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |
| 4, 6, 8 | ••• | ••• | • | ••• | ••• |

••• highly suitable •• well suited • suitable

All textures from 8 mm thickness are suitable for overhead glazing in accordance with DIN EN 356. Thicknesses in bold print are available from stock.



Bark (B)
Clear



Pearl (P)
Clear



Ribbed (R)
Clear



Tunis (TU)
Clear



Swing (SW)
Clear

* = registered trademark

PLEXIGLAS is a registered trademark of
Evonik Röhm GmbH, Darmstadt, Germany.

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

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Evonik Röhm GmbH
Kirschenallee
64293 Darmstadt
Germany
info@plexiglas.net
www.plexiglas.net
www.evonik.com

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