

PLEXIGLAS® Textures

Extruded (XT)

Product

PLEXIGLAS® Textures are extruded polymethyl methacrylate (PMMA) sheets. Their textured surface is produced by an embossed calender roll. The opposite side can additionally be provided with a mirror layer (only possible on sheets with a texture on one side).

Combined with LEDs, the light-guiding/light-diffusing surfaces create intriguing lighting effects that are further enhanced by the coated surface and the Radiant effect.

The Bark “B” and Ribbed “R” textures run parallel to the sheet length, in the direction of extrusion.

Extruded textured sheets are only covered with masking film on the smooth side. Sheets with textures on both sides have no surface masking.

Properties

Besides the general properties of PLEXIGLAS® like

- Excellent light transmission and brilliance
- Outstanding weather resistance
- 100% recycling ability
- Easy to fabricate
- High surface hardness
- Light weight – half the weight of glass
- 11 times more break resistant than glass

PLEXIGLAS® Textures possesses the following properties:

- Light diffusing surface

- From 8mm thickness, suitable for overhead glazing in accordance with DIN EN 356
- Insensitive to scratches

Applications

Due to these properties PLEXIGLAS® Textures are suitable for the following applications

- Lighting applications (standard lamps, ceiling lights, pendant lamps, street lighting); ambient lighting
- Furniture, exhibition booths and store fixtures (counter paneling, shelf partitions, displays)
- Private construction (balcony glazing, door/gate infill panels)

Processing

PLEXIGLAS® Textures can be machined with the same parameters and equipment as standard PLEXIGLAS®. The following fabricating guidelines are available:

- Machining of PLEXIGLAS® (No. 311-1)
- Forming of PLEXIGLAS® (No. 311-2)
- Joining of PLEXIGLAS® (No. 311-3)
- Surface treatment of PLEXIGLAS® (No. 311-4)
- Fabricating tips of PLEXIGLAS® solid sheets (No. 311-5)

For specifics to PLEXIGLAS® Textures – rainbow colored please refer to the Technical Information PLEXIGLAS® Reflections – rainbow colored (Ref-No. 232–27).

Technical data

	Unit	Test standard	XT
Max. permanent service temperature	°C		70
Forming temperature	°C		150 ... 160
Coefficient of linear thermal expansion α for 0 ... 50 °C	1/K (mm/m °C)	DIN 53752–A	$7 \cdot 10^{-5}$ (0,07)
Class		DIN 4102 BS 476/Part 7+6 BS 2782, Method 508 A	B2 Class 3 TP(b)
Class		DIN EN 13501	E

For further typical data of PLEXIGLAS® Textures please see the Technical Information of PLEXIGLAS® GS/XT (211–1).

Product range

PLEXIGLAS® Textures is available in the following grades and sizes:

Surface	Grade	Thickness	Size
Z, R, W, P, B, E, CL (on both sides), TK (on both sides)	0A000, 0A008, 8A470	3mm, 4mm, 6mm	2050mm x 1650mm
			2500mm x 1650mm
			3050mm x 1300mm
			3050mm x 1625mm
			3050mm x 1650mm
			3050mm x 2050mm

For details please refer to the PLEXIGLAS® sales handbook.

® = 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)

Evonik Industries is a worldwide manufacturer of PMMA products sold under the PLEXIGLAS® trademark on the European, Asian, African and Australian continents and under the ACRYLITE® trademark in the Americas.

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