

Technical Information

# **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	°C		70
temperature			
Forming temperature	°C		150 160
Coefficient of linear thermal	1 / K	DIN 53752-A	7 * 10-5
expansion a for 0 50 °C	(mm/m °C)		(0,07)
Class		DIN 4102	B2
		BS 476/Teil7+6	Class 3
		BS 2782, Methode 508 A	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 1650mm 3050mm x 2050mm

For details please refer to the PLEXIGLAS® sales handbook.

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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