

Customer-Information

Shower Walls



PLEXIGLAS® Hi-Gloss Rot 3M500 C1

Kitchen Splashback



PLEXIGLAS® Hi-Gloss Weiss WM596 C1

PLEXIGLAS® Hi-Gloss C1

Brilliant Solutions for Classy Applications

Clear, high-gloss PLEXIGLAS® is upgraded with a color effect layer in only one step, adding sparkling touches to all your applications.

There is no limit to the options available, which include all the colors in the PLEXIGLAS® sales range, silver pigments, interference pigments, gold pigments, metal pigments and multicolor pigments. All of these can be applied for a high-gloss effect that makes the colors even more vibrant and intensive.

PLEXIGLAS® Hi-Gloss C1 is used in store fixtures and exhibition booths, kitchens and bathrooms, and wherever a brilliant material is required for a brilliant presentation.

These are the crucial properties of PLEXIGLAS® Hi-Gloss from sheet processing to utilization of the finished Application:

- ☑ close thickness tolerances
- ☑ low forming temperature
- ☑ ease of thermoforming
- ☑ resistance to high temperatures according to the standard for acrylic sanitaryware
- ☑ resistance to wet / dry cycling according to the standard for acrylic sanitaryware
- ☑ resistance to chemicals according to the standard for acrylic sanitaryware
- ☑ resistance to humid and dry air cycling
- ☑ good resistance to stress cracking
- ☑ high colorfastness to light
- ☑ excellent weather resistance
- ☑ low thermal conductivity
- ☑ perfectly smooth surface
- ☑ skinfriendly

The PLEXIGLAS® Hi-Gloss C1 range comply with the **wet / dry cycling test** specified in **European standard EN 263**. The used PLEXIGLAS® molding compound and/or the PLEXIGLAS® sheets made of it is protected us under the EP-Patent Application 03740478.7!

Properties	PLEXIGLAS® Hi-Gloss C1	Unit	Test Standard
Mechanical			
Impact strength (Charpy, unnotched)	16	kJ/m ²	ISO 179/1 fu
Tensile strength	77	MPa	ISO 527-2/1B/5
Elastic modulus	3300	MPa	ISO 527-2/1B/5
Nominal strain at break	7,6	%	ISO 527-2/1B/5
Max. thickness tolerance for 6,0 mm	± 0,3	mm	ISO 7823-2
Indentation hardness <small>H961/30</small>	180	MPa	ISO 2039-1
Pencil-Hardness	4H	-	ASTM D 3363-92a
Thermal			
Coefficient of linear thermal expansion (0...50°C)	7	10 ⁻⁵ / K	DIN 53752-A
Vicat softening temperature	109	°C	ISO 306, B50
Heat deflection temperature under load HDT (1.8 MPa)	102	°C	ISO 75
Forming temperature (IR heating)	140 ... 160	°C	
Max. permanent service temperature	79	°C	-
Ignition temperature	430	°C	DIN 51794
Smoke gas volume	very little	-	DIN 4102
Smoke gas toxicity	non	-	DIN 53436
Smoke gas corrosiveness	non	-	-
Class	B2 Class 3 TP (b)	- -	DIN 4102 BS476, Teil7+6 BS2782, Methode 508A
Class	E	-	DIN EN 13501
Sanitary-Standard			
resistance to high temperatures according to the standard for acrylic sanitaryware	<input checked="" type="checkbox"/>	≥ 105° C	EN 263
resistance to chemicals according to the standard for acrylic sanitaryware	<input checked="" type="checkbox"/>	5 Test media	EN 263
resistance to wet / dry cycling according to the standard for acrylic sanitaryware	<input checked="" type="checkbox"/>	20 Cycles	EN 263
Others			
Density	1,19	g / cm ³	ISO 1183
Water absorption (24 h, 23°C) from dry state Specimen 50 x 50 x 2 mm	40	mg	ISO 62, Method 1

Sheet size

3050 × 2050 × 6 mm

Extra lengths

up to 12.5 m in extrusion width 2050 mm

Cut-to-size sections

generally possible from a size of 100 × 25 mm

Untrimmed sheets (with extrusion edge)

minimum order quantity 2,7 t per thickness

Other thicknesses

3 to 10 mm: minimum quantity of 5 t per grade

Other colors

3 to 10 mm: minimum quantity of 10 t per grade and 5 t per thickness

Using the Right Tools for Success

1. Waterproof marker
2. Medium to fine machine file
3. Scraper
4. Spray bottle
5. Compass saw max \varnothing 60 mm (for machining plastics and acrylic)
6. Step drill
7. Conical drill
8. Countersink
9. Metal drill with correct grinding for acrylic (point angle 60° to 90°)
10. Flush cutter with stop ring
11. Contour cutter with stop ring
12. Jigsaw blade with straight teeth and tooth pitch of 2.5 mm
13. Circular saw blade with straight teeth (ideally trapezoidal flat teeth) and tooth pitch of approx. 13 mm



Cleaning and care of PLEXIGLAS®

Dirt finds it hard to adhere to the perfectly smooth surface of PLEXIGLAS®. Dusty surfaces can be cleaned with water to which some washing-up liquid has been added, using a soft, non-linting cloth or sponge. Do not rub dry.

Vileda® Microclean cloths dampened with water have a good and practically smearfree cleaning effect.

In the event of heavier soiling, particularly with grease, benzene-free petroleum ether or isopropyl alcohol can be used to clean PLEXIGLAS®.

Suitable cleaning agents are:

- lukewarm water with a little washing-up liquid
- vinegar essence diluted with water
- isopropyl alcohol (2-propanol)
- pure petroleum ether
- soft, damp viscose sponge
- soft, damp non-linting cloth
- sponge cloth
- chamois leather
- glove-lining fabric
- cotton tea-towel
- shower squeegee with soft rubber lip
- damp microfiber cloth for the final touch (e.g., Vileda® Microclean)

® = 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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