

## Article

Art.-No.	Article	Manufacturing Process	Dimension	Color
0.0.476.13	Acrylic Glass 2mm	XT	panel dimension approx. 3050x2030 mm	clear
0.0.476.21			cut-off max. 3020x2000 mm	
0.0.492.05	Acrylic Glass 4mm	XT	panel dimension approx. 3050x2050 mm	clear
0.0.492.09			cut-off max. 3020x2020 mm	
0.0.705.95	Acrylic Glass 4mm	GS	panel dimension approx. 3050x2030 mm	clear
0.0.705.96			cut-off max. 3020x2000 mm	
0.0.492.37	Acrylic Glass 4mm, double-frosted	GS	panel dimension approx. 3050x2030 mm	glass-look
0.0.492.38			cut-off max. 3020x2000 mm	
0.0.492.39	Acrylic Glass 4mm, double-frosted	GS	panel dimension approx. 3050x2030 mm	tinted
0.0.492.40			cut-off max. 3020x2000 mm	
0.0.492.35	Acrylic Glass 4mm, double-frosted	GS	panel dimension approx. 3050x2030 mm	opal-white
0.0.492.36			cut-off max. 3020x2000 mm	
0.0.457.06	Acrylic Glass 5mm	GS	panel dimension approx. 3050x2030 mm	clear
0.0.428.21			cut-off max. 3020x2000 mm	
0.0.492.15	Acrylic Glass 5mm	XT	panel dimension approx. 3050x2050 mm	clear
0.0.492.16			cut-off max. 3020x2020 mm	
0.0.404.79	Acrylic Glass 5mm	XT	panel dimension approx. 3050x2030 mm	tinted
0.0.388.97			cut-off max. 3020x2000 mm	
0.0.703.94	Acrylic Glass 6mm	GS	panel dimension approx. 3050x2030 mm	clear
0.0.703.97			cut-off max. 3020x2000 mm	
0.0.457.07	Acrylic Glass 8mm	GS	panel dimension approx. 3050x2030 mm	clear
0.0.428.22			cut-off max. 3020x2000 mm	
0.0.404.74	Acrylic Glass 8mm	GS	panel dimension approx. 3050x2050 mm	tinted
0.0.026.46			cut-off max. 3020x2020 mm	

## Manufacturing Process

Properties	Process
XT	XT material is extruded in a so-called extruder.
GS	GS material is poured from the liquid raw material.

## Common Properties

Properties	Unit	Values	Standard
Material	-	Polymethylmethacrylat (PMMA)	-
Density	g/cm <sup>3</sup>	1.19	DIN EN ISO 1183
Thickness t	mm	2/4/5/6/8	-
Thickness Tolerance	%	± 10 (GS) ± 10 (XT, t ≤ 3mm ) ± 5 (XT, 3mm < t ≤ 20mm)	-
Light transmission	%	≥ 90 (Color: clear) 86 (Color: glass-look) 78 (Color: opal-white) 50 (Color: tinted)	DIN EN ISO 13468-2
Refractive Index	n <sub>D</sub> 20	1.49 (Color: clear)	DIN EN ISO 489

## Mechanical Properties

Properties	Unit	Values	Standard
Tensile Strength	MPa	≥ 70 (GS) ≥ 60 (XT)	DIN EN ISO 527-2
Bending Strength	MPa	≥ 100	DIN EN ISO 178
Modulus of elasticity	MPa	≥ 2900	DIN EN ISO 178
Charpy impact strength (unnotched)	kJ/m <sup>2</sup>	≥ 13 (GS) ≥ 8 (XT)	DIN EN ISO 179-1

## Thermal Properties

Properties	Unit	Values	Standard
Linear thermal coefficient of expansion (23°C - 70°C)	10 <sup>-6</sup> x K <sup>-1</sup>	70	ISO 11359-2
Thermal conductivity	W/mK	0,18	DIN EN ISO 22007-1
Vicat softening temperature	°C	≥ 105 (GS) ≥ 88 (XT)	DIN EN ISO 306 Procedure B50

## Electrical Properties

Properties	Unit	Values	Standard
Surface resistance*	$\Omega$	$\geq 10^{15}$	IEC 61340-5-1

\* Ambient temperature 23 °C  $\pm$  2 °C

The humidity during the tests was between 10-65% due to the local conditions.

## Flame Characteristics

Properties	Unit	Values	Standard
Flame Class Rating	-	HB	UL94
Fire Behaviour	-	E B2	DIN EN 13501-1 DIN 4102

## Handling and storage

Properties	
Handling	The product can be processed with standard machines and tools.
Recommended storage	Horizontal, dry, protected for climatic condition.

## Disposal

Basically, the country-specific laws and regulations regarding waste disposal must be observed.

Thermal recycling is preferable to landfill disposal. The disposal of the ashes resulting from thermal recycling in orderly industrial waste landfills is unproblematic.

## Cleaning

Flächen nicht trocken abreiben. Zum Reinigen viel warmes Seifenwasser und ein weiches Tuch (keine Mikrofaser) verwenden. Von Reinigungsmitteln wie Spiritus, Glasreiniger oder chemischen Reinigungsmitteln ist abzuraten. Reinigungsmittel vor Gebrauch an unauffälliger Stelle testen.

## Disinfection

Commercially available disinfectants are only partially suitable as they can damage the surface of the material. Bacteria and viruses can easily be wiped off the surfaces with isopropanol (2-propanol) and a soft cloth. The active ingredient has also been approved for hand disinfection to combat SARS-CoV-2.

## Chemische Beständigkeit

Substanz					
Acetone	-	Ethyl Acetate	-	Petroleum Ether	+
Ammonia	+	Glyzerin	+	Phosphoric Acid 10%	+
Amyl Alcohol	-	Heating Oil	o	Nitric Acid 10%	+
Petrol, free of aromates	+	Hexane	+	Salzsäure 10%	+
Benzol	-	Isopropanol	o	Hydrochloric Acid 35%	+
Boric Oxide	+	Coffee	+	Sulfuric Acid 10%	+
Butanol	-	Potassium Hydroxide	+	Table Vinegar	+
Chlorinated Hydrocarbon	-	Ketones	-	Stearic Acid	+
Chloroform	-	Methylene Chloride	-	Tea	+
Chlorinated Water/Air	o	Lactic Acid 10%	+	Turpentine	+
Dibutyl Phthalate	-	Mineral Oil	+	Toluene	-
Diocetyl Phthalate	-	Sodium	+	Thinner	-
Glacial Acetic Acid	-	Caustic Soda	+	Wax	+
Vinegar Essence	-	Nitro Lacquer	-	Hydrogen Peroxide	o
Acetic Acid Diluted	+	Oxalic Acid	+	Tartaric Acid	+
Ethanol	o	Paraffin	+	Xylene	-

+ resistant

o conditionally resistant

- inconsistent

## REACH, RoHS

Properties	
Regulation (EG) Nr. 1907/2006 (REACH)	compliant
Regulation 2011/65/EU (RoHS) inkl. EU 2015/863	compliant
silicone	Silicon is not relevant for production, however, minimal contact with silicone-containing lubricants or cleaning agents cannot be completely ruled out when handling and producing our products.

The above information is based on the current state of our knowledge and does not represent an assurance of properties. The recipient of the product is responsible for observing existing laws and regulations.

Subject to technical changes, errors excepted.