

Article

Art.-No.	Article	Dimension	Color
0.0.477.69	Polycarbonate 2mm	panel dimension approx. 3050x2050 mm	clear
0.0.479.61		cut-off max. 3020x2020 mm	
0.0.483.49	Polycarbonate 4mm	panel dimension approx. 3050x2050 mm	clear
0.0.483.50		cut-off max. 3020x2020 mm	
0.0.457.14	Polycarbonate 5mm	panel dimension approx. 3050x2050 mm	clear
0.0.428.23		cut-off max. 3020x2020 mm	
0.0.457.15	Polycarbonate 5mm	panel dimension approx. 3050x2050 mm	tinted
0.0.428.24		cut-off max. 3020x2020 mm	
0.0.689.80	Polycarbonate 5mm ESD	panel dimension approx. 3000x2000 mm	clear
0.0.689.81		cut-off max. 2970x1970 mm	
0.0.481.19	Polycarbonate 6mm	panel dimension approx. 3050x2050 mm	clear
0.0.481.20		cut-off max. 3020x2020 mm	
0.0.457.16	Polycarbonate 8mm	panel dimension approx. 3050x2050 mm	clear
0.0.428.25		cut-off max. 3020x2020 mm	
0.0.457.17	Polycarbonate 8mm	panel dimension approx. 3050x2050 mm	tinted
0.0.428.26		cut-off max. 3020x2020 mm	

Common Properties

Properties	Unit	Values	Standard
Material	-	Polycarbonate	-
Density	g/cm ³	1,2	DIN EN ISO 1183
Thickness t	mm	2/4/5/8	-
Thickness Tolerance	%	± 10 (t ≤ 5mm) ± 5 (t > 5mm)	-
Light transmission	%	≥ 85 (t < 4mm, Color: clear) ≥ 82 (4mm ≤ t < 6mm, Color: clear) ≥ 80 (6mm ≤ t < 12mm, Color: clear) 48 (Color: tinted)	DIN EN ISO 13468-1
Refractive Index	n _D 20	1,585 1,348 (ESD)	DIN EN ISO 489

Mechanical Properties

Properties	Unit	Values	Standard
Tensile Strength	MPa	≥ 55	DIN EN ISO 527-2
Bending Strength	MPa	≥ 90	DIN EN ISO 178
Flexural modulus of elasticity	MPa	≥ 2200	DIN EN ISO 178
Charpy impact strength (unnotched)	kJ/m ²	≥ 15	DIN EN ISO 179-1

Thermal Properties

Properties	Unit	Values	Standard
Linear thermal coefficient of expansion (23°C - 70°C)	10 ⁻⁶ x K ⁻¹	65	ISO 11359-2
Thermal conductivity	W/mK	0.2	DIN EN ISO 22007-1
Vicat softening temperature	°C	≥ 145	DIN EN ISO 306 Procedure B50

Electrical Properties

Properties	Unit	Values	Standard
Surface resistance*	Ω	>10 ¹⁵ 10 ⁴ bis 10 ⁸ (ESD)	IEC 61340-5-1
Specific volume resistance*	Ωm	>10 ¹⁴	IEC 61340-5-1

* Ambient temperature 23 °C ± 2 °C

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

Flame Characteristics

Properties	Einheit	Wert	Norm
Flame Class Rating	-	B - s1, d0	DIN EN 13501-1
Flame Class Rating (ESD)	-	B2	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

Rinse the surface with lukewarm water and remove dirt and deposits with a soft cloth or sponge and a mild, non-abrasive soap solution. Rinse with cold water and dry with a soft cloth to prevent water stains. Test detergent at an unobtrusive place firstly.

Desinfection

In principle, the country-specific laws and regulations relating to disinfection must be observed.

Ethanol, propanol and isopropyl alcohol (also called isopropanol) are alcohols and have a disinfectant effect. They damage the shell of bacteria, fungi and viruses and kill them in this way. Isopropanol is a highly concentrated alcohol and is often used as a substitute for ethanol. The areas of application are diverse, but be careful when using it. Isopropanol, also known as isopropyl alcohol and 2-propanol, is one of the secondary alcohols.

PC can be cleaned and disinfected quickly and easily with ethanol and isopropanol, as PC is not attacked by these solvents. The duration of contact should be kept to the minimum necessary. Test at an unobtrusive place firstly.

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.