

TeraPrint Produktunterlage

Gebrandete TeraPrint-Downloadunterlage

PRODUKT	Acrylglas
UNTERLAGE	Acrylglas Datenblatt
TYP	datasheet
ORIGINALSEITEN	2
STAND	16.06.2026
DATEI	products/photo-on-panel/assets/documents/739631c804b1ffe306d9cf18b1dc0a2120df272e514c44e0de9aadd2cdc9a8d5.pdf

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TECHNICAL DATASHEET

Acrylic sheet

1. PRODUCT IDENTIFICATION

CRYLON® is the brand name for extruded Polymethyl methacrylate sheets from POLYCASA, standard or high impact. The CRYLON® and High Impact programme offers solutions to both indoor and outdoor applications. As a result of the extrusion process, POLYCASA can offer a variety of colours and designs.

2. CHARACTERISTICS

- Good optical properties
- Brilliant surface
- Easy to fabricate, to vacuum form
- Show an exceptional high light transmission
- Good scratch resistance for the standard grade
- High surface hardness for the standard grade
- Good recyclability
- XT and XT High Impact meet all current European food contact legislation and can be used in contact with foodstuffs
- Excellent transparency

3. APPLICATIONS

Constructional components

- Light domes
- Partition walls
- Door glazing
- Roofing
- Roof hoods for caravans

Lighting

- Covers for lighting
- Coffered lighting
- Kitchen lighting
- Illuminated plates

Engineering components

- Housing
- Machine covers

Advertising and decoration materials

- Letters
- Decorations
- Displays
- Advertising fittings
- Advertising panels

Other applications

- Containers
- Lettering templates
- Sign equipment etc.
- Solariums UVT (UV-translucent grade)

4. FABRICATION AND FINISHING TECHNIQUES

CRYLON® and CRYLON® High Impact sheets are easy to handle. They can be machined using all the usual methods, such as sawing, milling, drilling, turning, grinding and polishing, and are most suitable for thermoforming.

More detailed information on these items can be found in the "USER GUIDE", available on request.

TECHNICAL DATASHEET

Acrylic sheet

5. TECHNICAL DATA

GENERAL				
Property		Method	Units	CRYLON®
Density		ISO 1183	g/cm³	1.19
Water absorption 24h/23°C – 50x50x4mm³		DIN EN ISO 62 Method 1	%	0.2
Ball indentation hardness		ISO 2039-1	MPa	235
Forming temperature air pressure			°C	140-160
Forming temperature vacuum			°C	160-190
Moulding shrinkage			%	0.5-0.8
MECHANICAL				
Tensile strength		ISO 527-2	MPa	70
Elongation at break		ISO 527-2	%	4
Tensile modulus		ISO 527-2	MPa	3200
Flexural strength		ISO 178	MPa	115
Flexural modulus		ISO 178	MPa	3300
Impact strength Charpy unnotched		ISO 179-1	kJ/m²	17
Impact strength Charpy notched		ISO 179-1	kJ/m²	2
THERMAL				
Vicat temperature (B 50)*		ISO 306	°C	105
Specific heat capacity		ISO 11357-4	J/gK	1.47
Linear thermal expansion		DIN 53752	K ⁻¹ *x10 ⁻⁵	7
Thermal conductivity		DIN 52612	W/mK	0.18
Service temperature continuous use			°C	70
Max. temperature short term use			°C	90
Degradation temperature			°C	>280
OPTICAL				
Light transmission (3mm)		DIN 5036-3 / EN ISO 13468-2	%	92
Refractive index		ISO 489	n _D ²⁰	1.492
ELECTRICAL				
Surface resistivity		IEC 60093	Ω	3x10 ¹⁵ - 3x10 ¹⁶
Volume resistivity		IEC 60093	Ω x m	1x10 ¹³ - 5x10 ¹³
Electrical strength		IEC 60243-1	kV/mm	10
Dielectric strength		IEC 60243-1	kV/mm	30
Dielectrical dissipation factor 50 Hz		DIN 53483-2		0.06
Dielectrical dissipation factor 1 KHz		DIN 53483-2		0.04
Dielectrical dissipation factor 1 MHz		DIN 53483-2		0.02
Relative permittivity 50 Hz		DIN 53483-2		2.7
Relative permittivity 1 KHz		DIN 53483-2		3.1
Relative permittivity 1MHz		DIN 53483-2		2.7

*Pre-treatment 16h at 80°C

Note: These technical data of our products are typical ones; the actually measured values are subject to production variations.