

material:	Polymethylmethacrylat Co-Polimer
temperatur:	-40°C to +82°C
format:	1220 mm x 610 mm
thickness:	0,7 mm - 1,5 mm - 2,3 mm - 3,1mm
warranty durability:	10 - 15 years

General Characteristics

	DIN	ISO	UM	Value
specific gravity	53479	R - 1183	gr. / cm ³	1,15
Water absorption	53495	R - 62	%	0,36

LASER-TEC is free from halogen and silicon.

LASER-TEC is UV-resistant and tested in extreme circumstances with regard to durability against weathering.

LASER-TEC keeps a brilliant surface during a long term period, as well as it keeps its physical characteristics!

Mechanical Characteristics

Tensile strength	53455	R - 527	Mpa	38
Breaking elongation	53455	R - 527	%	35
Rockwell hardness	/	/		M 42
Impact strength (CHARPY)	53453	R - 179 / 2d	KJ / m ²	50
Impact strength (IZOD notched)	/	R - 180 / 4a	J / m ²	58,5

Optic Characteristics

Refractive index B	53491	R - 489	/	1,49
Transmittance	5036	/	%	90

Thermic Characteristics

Vicat heat stability - (50 N) - B/50	53460	R - 306	°C	88,5
HDT under load - 1,82 Mpa	53461	R - 75	°C	84,5
Coefficient of thermic expansion	53752A	/	10 ⁻⁶ K	100

Electric Characteristics

resistivity	53482		Ohm/cm	> 10 ¹⁵
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Inflammability

Fire resistance	/	/	Class	HB
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Color UV Resistance

The minimum checked values according to the "blue color scale" are:

4/5 for the coloured sheets

The tests have been made in QUV.

Resistance To Varnish And Similar

- + Non aromatic petrol
- o Pure oil paints
- Diluent, in general
- o Inks and varnish for acrylic glass
- Nitro varnish

Resistance To Chemical Agents, Solvents

- Ethyl acetate
- + Sodium acetate 32%
- Acetone
- + Uric acid up to 20% or chlor water
- + Oxygenized water up to 40%
- o Oxygenized water over 40%