

Transparent (red or bornc), extruded thermosetting plastic with very good flammability performance, high temperature and impact resistance and non-glare coating on one side.

Applications: used for filters for electronic displays (not only for LED displays, but especially LCD and TFT).

Sheet Size: Standard: approx. 1000 x 700 mm in thickness 3.0 mm; thickness tolerance of +/- 0.30 mm. ttv also supplies cut to size or machined to customer's drawings (including silk screen printing and adhesive).
Larger sheets and colors available on request.

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
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PHYSICAL

Density	ISO 1183	g/cm ³	1.24
Pencil Hardness	ASTM D-3363		< 1H
Water Absorbtion	ISO 62-I	%	0.35

OPTICAL

Transmission	DIN 5036	%	approx. 90
Refractive Index	ISO 489		1.58

THERMAL

Vicat Softening Temperature	ISO 306	°C	145
Maximum Continuous Temperature		°C	120
Heat Distortion Temperature	ISO 75	°C	138
Coefficient of Thermal Expansion	DIN 53752-A	1/°C	7 x 10 ⁻⁵
Coefficient of Thermal Conductivity	DIN 52612	W/mK	0.2
Hot Wire Test (960°C)	IEC 695-2-1		passed

MECHANICAL

Rupture Strength (tensile)	ISO 527-2/1B/5	MPa	60
Rupture Strength (flexural)	ISO 178	MPa	100
Tensile Elongation	ISO 527-2/1B/5	%	7
E-Module	ISO 527-2/1B/1	MPa	2300

CHEMICAL

"+" = no change, "x" = conditionally resistant, "-" = not resistant

- Acetone	- Alcohol (96%)	+ Allyl Alcohol	+ Ammonium Chloride
x Aniline	+ Arsenic Acid	- Ammonia (25%)	x Aldehyde
x Benzine	- Benzene	- Bromine Vapors	x Chlorine Vapors
+ Chromium Acid (20%)	+ Ester	x Fluorine Vapors	+ Formaldehyde (10-40%ig)
x Glycerine	+ Iodine	x Hexane	+ Ketones
- Phenole	+ Lanolin	- Methanol	+ Water
- Fuel Mixture	+ Mineral Oil	- Sodium Hydroxide	- Phosphoric Acid (85%)
- Hydrochloric Acid	x Acids (up to 20%)	- Carbon Tetrachloride	

* Values provided cannot be guaranteed in your application due to circumstances beyond our control.



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