

Extruded polycarbonate film with high internal light scatter, achieving uniform illumination over a wide area if shone through with spot light sources.

POLYCARBONATE-STR1 is opaque translucent in color and has a fine velvet finish on both surfaces.

**Applications:** POLYCARBONATE-STR1 is used as diffusor in front of LEDs, as illuminated or back-lit information carrier in electronic displays, or as diffusor on projection screens.

**Delivery Form:** comes in rolls 1200 mm wide, in thicknesses 0.2 mm and 0.4 mm. ttv also supplies cut to size or machined to customer's drawings.

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
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**PHYSICAL**

Density	ISO 1183	g/cm <sup>3</sup>	1.51
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**OPTICAL**

Transmission	DIN 5036	%	> 60
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**THERMAL**

Maximum Continuous Temperature		°C	120
Coefficient of Thermal Expansion	DIN 53752	1/°C	40x 10 <sup>-6</sup>
Coefficient of Thermal Conductivity	DIN 52612	W/mK	0.2

**MECHANICAL**

Rupture Strength (flexural)	ISO 1184	MPa	3100
Tear Strength	<b>ISO 1184</b>	MPa	45
Elongation at break	ISO 1184	%	40

**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.

