

POLYCARBONATE *antistatic*, clear 1000

Technical Data Sheet

Extruded POLYCARBONATE with conductive, antistatic coating on both surfaces for electro static discharge.

Applications: wherever increased temperature resistance and impact strength are required, e.g. for ESD (electro static discharge) - protected machine covers, in microelectronics and construction of testing adapters or as window for electronic displays.

Sheet Size: approx. 2000 x 1000 mm; in thicknesses from 1.0 mm up, thickness tolerance $\pm 10\%$. ttv also supplies cut to size or machined to customer's drawings (incl. silk screen printing and adhesive).

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
----------------	-------------	------	--------

PHYSICAL

Density	ASTM D-792	g/cm ³	1.20
Pencil Hardness	JIS K 5400		HB
Water Absorbtion	ASTM D-570	%	0.3

OPTICAL

Transmission	ASTM D-1003	%	approx. 80
Refractive Index	ASTM D-542		1.58

THERMAL

Maximum Continuous Temperature		°C	120
Heat Distortion Temperature	ASTM D-648	°C	135
Coefficient of Thermal Expansion	ASTM D-696	1/°C	7×10^{-5}
Coefficient of Thermal Conductivity	DIN 52612	W/mK	0.20

MECHANICAL

Rupture Strength (tensile)	ASTM D-638	N/mm ²	64.7
Rupture Strength (flexural)	ISO 178	MPa	93.2
E-Module	ASTM D-638	N/mm ²	2200
Impact Strength (notched Izod)	ASTM D-256	J/m	847
Ultimate Elongation	ASTM D-638	%	100

ELECTRICAL

Surface Resistance	ASTM D-257	Ω / \square	$10^6 - 10^7$
Electro Static Discharge	MIL B-81705B	sek.	< 0.1

CHEMICAL **

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

+ Hydrofluoric Acid (20%)	+ Hydrocarbon Acid (20%)	+ Aulfuric Acid (50%)	+ Nitric Acid (20%)
+ Phosphoric Acid (85%)	+ Acetic Acid (10%)	- Sodium Hydroxide (30%)	+ Potassium Chloride (sat.)
+ Hydrogen Peroxide (30%)	- Ammonium fluoride (sat)	+ Natrium Chloride (sat.)	- Ammonia
+ Alcohol (Methyl, Ethyl)	- Potassium Chloride (30%)	- Ketones (Acetone)	- Benzene
- Toluol	- Ester	- Halogen	+ Formalin
+ Freon (TES 30%)	+ Water	+ Dishwashing Liquid	+ Glass Cleaner

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

** 72 hours at 23°C room temperature



sudetenstrasse 53 tel +49-8171-3469-0
d-82538 geretsried fax +49-8171-3469-29

internet: www.go-ttv.com
email: info@go-ttv.com

Update: 30.04.2009