## ANTIFLEX<sup>®</sup> -HT

## **Technical Data Sheet**

**ANTIFLEX®**-HT is ttv's heavily cross linked precision cast acrylic (PMMA) in excellent optical quality (known from **LUXACRYL**®) with one-side cast-in non-glare surface for applications with requirements of increased temperature, chemical, or weather resistance.

**Applications:** mainly used as windows for any type electronic display (LED, VFD, LCD, etc., in applications requiring improved features (see above).

**Sheet size:** Standard: 850 x 850 mm; thicknesses from 0.8 through 6.0 mm, thickness tolerances  $\pm 0.1$ mm (up to thickness 3.0 mm). ttv also supplies cut to size or machined to customer's drawings (including silk screen printing and adhesive).

TECHNICAL DATA		TEST METHOD	U	NIT	VALUE*
PHYSICAL					
Density		ASTM D-792	g/	cm <sup>3</sup>	1.19
Pencil Hardness		ASTM D-3363			approx. 3 – 4 H
Water Absorption		ASTM D-570		%	0.3
OPTICAL					
Transmission		ASTM D-1003	%		approx. 92
Refractive Index		ASTM D-542			1.49
THERMAL					
Vicat Softening Temperature		ISO 306		C	120
Maximum Continuous Temperature				C	90
Heat Distortion Temperature		ASTM D-648		C	110
Coefficient of Thermal Expansion		ASTM D-696	1	°℃	7 x 10 <sup>-5</sup>
Coefficient of Thermal Conductivity		DIN 52612	W/mK		0.16
MECHANICAL					
Rupture Strength (tensile)		ASTM D-638	kg/cm <sup>2</sup>		700
Rupture Strength (flexual)		ASTM D-790	kg/cm <sup>2</sup>		1250
Elongation		ASTM D-638	%		4
E-Module		ISO 527-2/1B/1	MPa		3000
CHEMICAL RESIST	ANCE		"+" = no	o change,	"-" = not resistant
+ Acetone	- Alcohol (96%)	+ Methyl Alcohol (50%)		+ Isopropyl Alcohol (50%)	
- Ethyl Acetate	- Carbon Tetrachloride	- Toluene		- Benzen	
- Ethylene Dichloride	- Methylethyl Ketone	+ Kerosene		- Trichloro Ethylene	
+ Glycerine	+ Ammonium Hydroxide (10%)	+ Sodium Carbonate (20%)		+ Bases (20%)	
+ Sulfuric Acid (30%)	+ Sulfuric Acid (98%)	+ Hydrochloric Acid (10%)		- Hydrochloric Acid (35%)	
+ Nitric Acid (30%) - Nitric Acid (61%)		+ Acetic Acid (5%)		- Glacial Acetic Acid	
+ Oleic Acid	+ n-Hexane				

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



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