LUXACRYL[®] / 2h

Technical Data Sheet

LUXACRYL[®]/2h is ttv's precision cast acrylic (PMMA) for applications with requirements of excellent optical quality, but with a special hard coating on both surfaces (pencil hardness > 6H) to enhance scratch resistance.

Surface Test applied: Sliding a weight (diameter 40 mm) of 250p - with a pad of steel wool #1 underneath – 3 times across the surface shall not cause any visible scratches.

Applications: Whenever scratch resistance of cast acrylic sheet (Pencil hardness 2 to 3H) does not meet the requirements; mainly as windows for any type electronic display. (For this application available with additional non glare surface: **ANTIFLEX®-AR3/2h**).

Sheet Size: Standard 550 x 400 mm; thicknesses from 0.5 mm through 5.0 mm (for off-the-shelf thicknesses: see stock list), thickness tolerance ± 0.1 mm (up to thickness 3.0 mm). ttv also supplies cut to size or machined to customers' drawings (including silk screen printing and adhesive).

Special Production: non-stock thicknesses and tints.

	TEST METHOD	UNIT	VALUE*
PHYSICAL			
Density	ASTM D-792	g/cm³	1.19
encil Hardness	ASTM D-3363		approx. 6-8H
DPTICAL			
ransmission	ASTM D-1003	%	approx. 97
efractive Index	ASTM D-542		1.49
HERMAL			
1ax. Continuous Temperature		C	80
leat Distortion Temperature	ASTM D-648	C	110
Coeff. of Thermal Expansion	ASTM D-696	1/℃	7x10 ⁻
Coeff. of Thermal Conductivity	DIN 52612	W/mK	0.1
IECHANICAL			
upture Strength (tensile)	ASTM D-638	kg/cm ²	60
upture Strength (flexural)	ASTM D-790	kg/cm²	80
longation	ASTM D-638	%	
urface Resistance	ASTM D-257	ohms	> 10 ¹
HEMICAL RESISTANCE			
acetone, alcohol (methyl or ethyl 50%), benzene, ethylene dichloride, soap aqua			NO CHANG
olution, toluene, trichlorethylene			

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



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