

ANTIFLEX®-AR3/Mesh is ttv's precision cast acrylic sheet - **LUXACRYL®** - for applications with requirements of excellent optical quality, but with non-glare coating and cast-in blackened metal mesh - stainless steel V2A with 100 opi (openings per inch) to be contacted with silver lacquer (busbar) along the edges of the display filter.

Applications: highly effective EMI/RFI shielding for LCD, VFD or TFT displays.

Sheet Size: Standard 1000 x 740 mm; thicknesses from 1.5 mm to 4.0 mm, thickness tolerance +/- 0.3 mm.

ttv also supplies cut to size or machined to customer's drawings (including silk screen printing or adhesive, and busbar for contacting).

Special Production: without non-glare coating **LUXACRYL®/Mesh** or with chemical and scratch resistant non-glare coating (pencil hardness approx. 5 H).

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
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PHYSICAL

Density	ASTM D-792	g/cm ³	1.19
Pencil Hardness	ASTM D-3363		approx. 2 – 3 H

OPTICAL

Transmission	ASTM D-1003	%	approx. 75
Refractive Index	ASTM D-542		1.49
Haze		%	approx. 1.9

THERMAL

Maximum Continuous Temperature		°C	80
Heat Distortion Temperature	DIN 53460	°C	110
Coefficient of Thermal Expansion	ASTM D-696	1/°C	7 x 10 ⁻⁵
Coefficient of Thermal Conductivity	DIN 52612	W/mK	0.186

MECHANICAL

Rupture Strength (tensile)	DIN 53455	MPa	65
Rupture Strength (flexural)	DIN 53452	MPa	120
Elongation	DIN 53455	%	3-4

CHEMICAL RESISTANCE

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

- Acetone	- Alcohol (96%)	+ Dilute Alcohol (50%)	- Amine
- Aniline	x Ether	- Aromatic Hydrocarbon	+ Ethylene glycol
+ Benzene	- Benzene	x Bromine Vapors	x Chlorine Vapors
- Chlorinated Hydrocarbon	- Ester	x Fluorine Vapors	x Formaldehyde (10-40%)
+ Glycerine	+ Factory fume	+ Hexane	- Ketones
- Paint thinner	+ Lanolin	+ Bases (10%)	x Bases (20%)
+ Methylamine	+ Mineral Oil	+ Chlorinated Paraffin	+ Petroleum Ether
- Phenole	+ Salt Solutions	+ Acids (20%)	- Carbon Tetrachloride
- Fuel mixture	+ Water	+ Xylene	

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

