ANTIFLEX®-AR3/ITO Technical Data Sheet

ANTIFLEX®-AR3/ITO is ttv's precision cast acrylic (PMMA) **LUXACRYL®** with hard coating and antireflection multi-coating on both surfaces.
Front surface with additional non-glare coating (AR3 coating) plus special ANTI-FINGER-PRINT coating for easier cleaning.
Conductive ITO (Indium Tin Oxide) layer underneath the optical AR coating for EMI/RFI shielding: < 100 Ω/☐ each surface, i.e. < 50 Ω/☐ both surfaces combined.

Applications: mainly used for applications requiring EMI/RFI shielding (Faraday cage).

Standard sheets: clear, in thicknesses from 1.5 to 3.0 mm; thickness tolerance ± 0,1 mm.
ttv also supplies cut to size or machined to customer's drawings (including silk screen printing and adhesive; silver lacquer (busbar) for contacting on request.

TECHNICAL DATA	TEST METHOD	UNIT	VALUE*
PHYSICAL			
Density	ASTM D-792	g/cm³	1.19
Pencil Hardness	ASTM D-3363		approx. 6 – 8 H
OPTICAL			
Transmission	ASTM D-1003	%	>= 98
Reflectance		%	<= 1
Haze	ASTM D-1003	%	approx. 1,9
THERMAL			
Heat Distortion Temperature	ASTM D-648	℃	110
Maximum Continuous Temperature		℃	80
Coefficient of Thermal Expansion	ASTM D-696	1/℃	$7x10^{-5}$
Coefficient of Thermal Conductivity	ASTM C-177	W/mK	0.17
MECHANICAL			
Rupture Strength (flexural)	ASTM D-790	kg / cm²	800
Elongation	ASTM D-638	%	3
ELECTRICAL			
Surface Resistance (per surface)		Ω / ☐	< 100

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

+ Isopropyl Alcohol	+ Soap Aqua Solution (20%)
+ Water	- Sulfuric Acid
- Sodium Carbonate	

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

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Stand: 30.04.2009