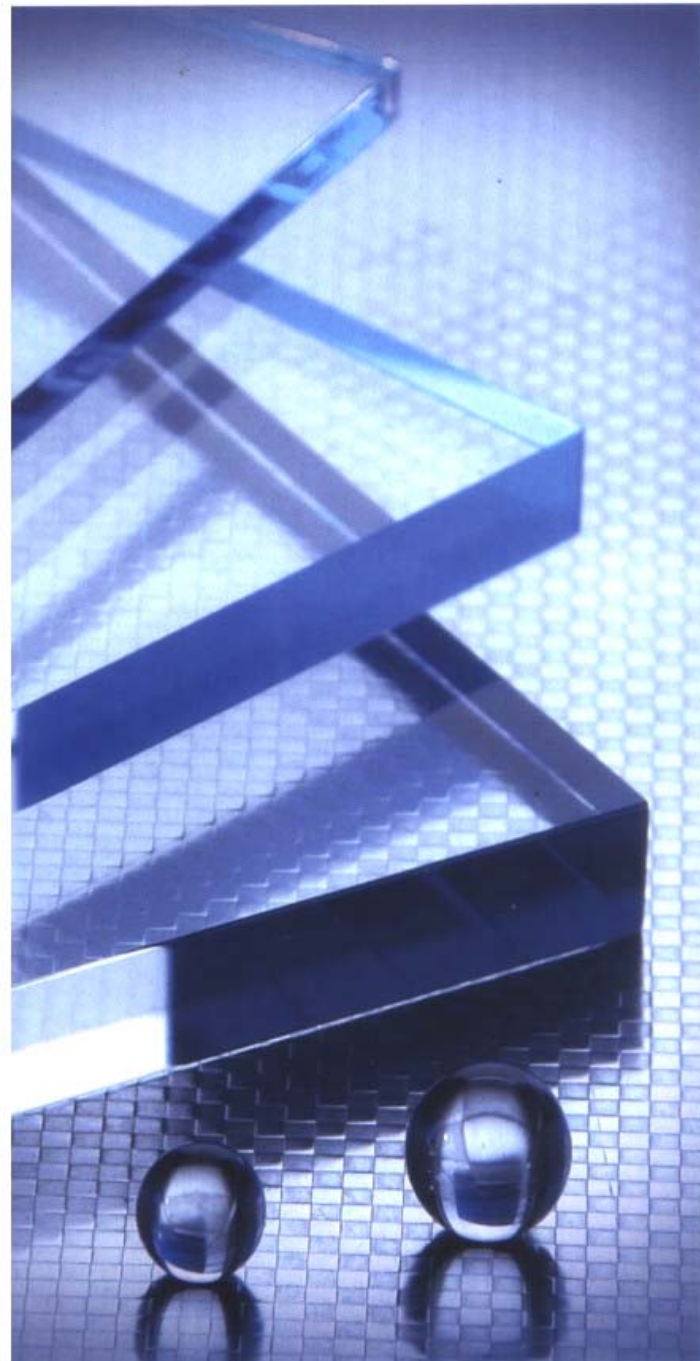




Plastral

IMPAX AR
Hard Coated Polycarbonate



Clearly Harder, Clearly IMPAX

IMPAX AR - Hard Coated Polycarbonate



IMPAX AR is a clear, UV, graffiti and abrasion resistant, flat polycarbonate sheet. It can withstand the harsh environments of public areas, and is resilient against most physical attacks making it ideal for security and custodial areas where mechanical and physical impacts are common. IMPAX AR can also be glass laminated for applications where ballistics are involved.

IMPAX AR is easy to cut drill and install, and withstands a variety of chemicals.

IMPAX AR comes in a variety of thicknesses from 1.5mm to 12.7mm and there are three standard sheet sizes - 1220mm x 2440mm, 1525mm x 2440mm and 1830mm x 2440mm. Custom sizes are available but are dependant on volumes.



Benefits

- Virtually unbreakable
- High Impact resistance
- High abrasion resistance on either one or both sides
- Light Transmission of up to 90%
- Resistant to acts of vandalism, ballistic and mechanical attacks
- ASTM F1915-03 Level 3 at 12.7mm
- Better able to withstand chemical agents
- Light and easy to install
- Graffiti proof
- 10 year limited warranty



Flammability

IMPAX AR passes the fire tests needed to meet the majority of national fire codes including :

Standard	Classification*
BS 467/7	Class I, Class 1Y
DIN 4102	B1, B-2
NSP 92501,4, 5	M1, M2
CSE RF 2/75/A, CSE RF 3/77	Class I

*depends on sheet thickness

Chemical and Abrasion

IMPAX AR has a protective coating that gives the surface its chemical and abrasion resistance and making it considerably harder than general purpose polycarbonate. This along with UV inhibitors, provides enhanced resistance to abrasion, scratching, hazing, and marring.



Property	Method	Conditions	Units	Value
Density	ISO 1183		g/cm ³	1.2
Water Absorption	ISO 62	24 h @ 23 °C	mg/kg	<8
Tensile Strength	ISO 527		Mpa	60
Elongation at Break	ISO 527		%	90
Tensile Modulus of Elasticity	ISO 527		MPa	2200
Abrasion (Taber Process)	ISO 179	100 rotations, CS-10F, 500g	% Haze	<1.5
Layer Thickness			µm	7-15
Adhesive Properties		0.5/1.0/2.0 h boiled at 100 °C		GT 0/0/0
VICAT Diluting Temperature	ISO 306	VST/B 50	°C	150
HDT/A ³	ISO 75	Load 1.8 MP	°C	135
Permanent Use Temperature	DIN 53446		°C	115
Service Temperature Range			°C	-40 to 115
Coefficient of Linear Thermal Expansion	DIN 53752		cm/cm °C	6.5 x 10 ⁻⁵
Thermal Conductivity	DIN 52612	0 – 50 °C	W/m K	0.21
Specific Heat			J/g K	1.3
Light Transmission	DIN 5036		%	>86
Chamfer Angle	DIN 52305	3mm Sheet	Bg'	<5
Refractive Power	DIN 52305		dpt	<0.1
Specific Volume Resistivity	DIN VDE0303		Ωcm	10 ¹⁵
Dielectric Strength	DIN EN60243		kv/mm	>30

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