

AU PVC

Flat Solid PVC Sheet

Data Sheet

Product Range

AU PVC	Opaque and transparent Standard UV stabilized sheet for general purpose and fabrication applications.
AU PVC Matte	Matte finish on one side
AU PVC HYG	Hygienic panels with active sanitation action, effectively eliminating various types of harmful microbes, including those resistant to antibiotics.
AU PVC CLEAR UV	Transparent sheet with UV protection on one side.

* Special colors are available upon special request and are subject to a minimum quantity.

Standard Dimensions*

Dimensions (mm)	1220x2440	1000x2000	1500x3000
Thickness (mm)	1-15	1-10	1-6

* Special dimensions are available upon special request and are subject to a minimum quantity.

Colors*

Opaque	White RAL 9010	Light Grey RAL 7040	Dark Grey RAL 7015	Metallic Grey RAL 9022
Transparent	Water-Clear	Clear Matte	White Diffused	

* Special colors are available upon special request and are subject to a minimum quantity.

Typical Physical Properties

Property	Conditions	Method	Units	Value
Density		ASTM D-792	g/cm ³	1.4
Rockwell hardness		ASTM D-785	R Sclae	97R
Tensile strength at yield	10mm/min	ASTM D-638	MPa	52
Tensile strength at Break	10mm/min	ASTM D-638	MPa	50
Elongation at Yield	10mm/min	ASTM D-638	%	3
Elongation at break	10mm/min	ASTM D-638	%	140
Tensile modulus of elasticity	1mm/min	ASTM D-638	MPa	2,900
Flexural strength	1.3mm/min	ASTM D-790	MPa	80
Flexural modulus	1.3mm/min	ASTM D-790	MPa	2,700
Impact falling weight	3mm sheet	ISO 6603/1 E50	J	95
Service temperature			°C	-10 to 50°C
Heat deflection temperature (HDT)		ASTM D-648	°C	65-68
Coefficient of linear thermal expansion	Load: 11Kg	D-1525	cm/cm °C	6.7x10 ⁻⁵
Thermal conductivity		D-696	W/mk	0.15

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Flammability

AU PVC is self-extinguishing and complies with the most demanding international fire resistance standards defined in the field of plastics, as shown in the attached table.

Standard	Classification*	Standard	Classification*
DIN 4102	B-I	CSE RF 3/77	Class I
BS 476/7	Class I	UL 94	V-0
NSP 92501,5	M-I	ASTM D-635	SE

*Depends on product thickness and type.

Resistance to Chemicals

Excellent resistance to... Mineral acids, alkalis, plating solutions, paper making chemicals, pickling solutions, other inorganic solutions and fumes thereof.

Good resistance to... Alcohols, aliphatic hydrocarbons, glycols, amines, phenols.

Not recommended to contact... ketones, chlorinated solvents, aromatic hydrocarbons, some esters and ethers.

For more information please refer to your AST dealer.

Fabrication Tips

PALOPAQUE can be easily fabricated using various techniques. Below are general recommendations for some of them.

Sawing - For both band and circular saws use blades with a minimum tooth set, and about 8 to 10 teeth per inch. Prevent overheating by feeding slowly.

Machining - Use low machining speeds for turning and shaping, and assure free removal of machining chips.

Thermoforming - Between 130°C and 170°C PALOPAQUE sheets become formable and can then be formed, press molded or blow formed.

Drilling - Use conventional drills, but be certain to remove free drill chips in order to avoid overheating of the sheet. Also, use slow rate of penetration.

Bonding - PALOPAQUE sheets can be bonded with conventional solvent based PVC adhesives.

Welding - PALOPAQUE extruded PVC sheets can be welded by hot-air welding process conventionally used for PVC.



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