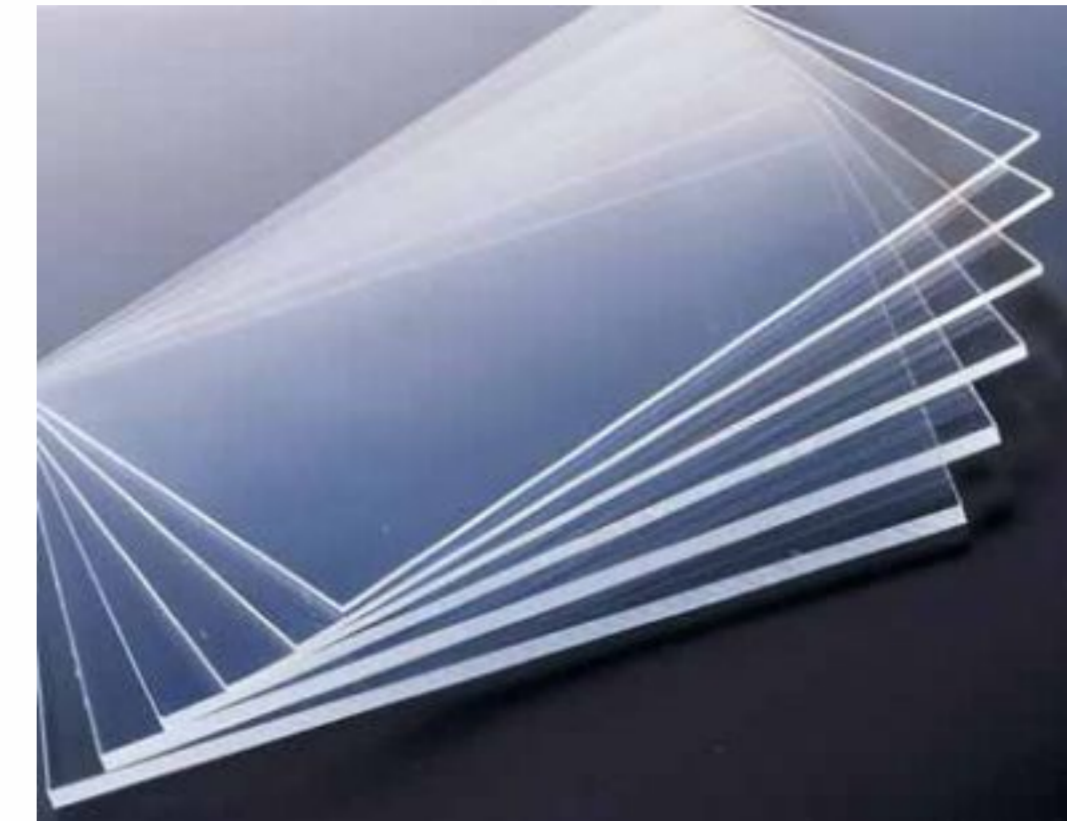


Athpol G10: Extruded GPPS

Product Description

Extruded sheet products which combine the excellent rigidity and clarity from use of a GPPS (crystal PS) polymer.



Key Characteristics

- Excellent transparency (high light transmission)
- Good surface hardness / scratch resistance
- Available in smooth and textured finishes
- Excellent rigidity
- Range of colour tints available

Applications

Typical applications include shower cubicle doors and panels (textured translucent panels - TLP's), DIY applications, indoor glazing, picture frames, display stands etc.

Product Range

Product Code	Product Description	Properties
Athpol G10	Extruded GPPS (crystal PS) sheet	Excellent clarity; high rigidity; good scratch resistance

Technical Information⁽¹⁾

	Property	Test Method	Unit	Athpol G10
Mechanical	Density ⁽²⁾	ISO 1183 / B	g/cm ³	1.05
	Tensile Strength	ISO 527-2 / 50	MPa	42
	Tensile Modulus	ISO 527-2	MPa	3100
	Flexural Strength	ISO 178	MPa	75
	Charpy Impact Strength (un-notched @ 23°C)	ISO 179 / 1eU	kJ/m ²	9
Thermal	Temp. of Deflection under Load	ISO 75-2 / A	°C	75
	Vicat Softening Point	ISO 306 / B50	°C	85
Other	Flammability @ 1.6mm	UL94	Class	HB
	"A" Surface Gloss (60° angle - smooth surface) ⁽⁴⁾	ISO 2813	Gloss Units	>85

(1) Property evaluations based on injection moulded unpigmented samples unless otherwise stated

(2) Density values vary with pigmentation

(3) All gloss readings are based on thermoformed parts - gloss levels may vary this dependent on sheet gauge

Where certain requirements are deemed critical, e.g. gloss / matt levels, opacity etc., then these requirements must be communicated to Athlone Extrusions such that the necessary standards are agreed before orders are placed.

Standard Range

Property	Extruded Sheet
Gauge:	2.0 – 6.0mm
Width:	350 – 1250mm
Length:	500 – 2500mm
Colour:	available in clear and colour tints
Surface Finish:	gloss finish
Textured Finish:	extensive range of textured finishes available
Optional Extras:	
• Protective PE Film	on request (smooth surface)

Standard Tolerances

Sheet Thickness (mm)	2.0 to 4.99	5.0 to 6.0
Gauge	+/- 0.1mm	+/- 0.15mm
Width	+/- 1.5mm	+/- 1.5mm
Length	+/- 3.0mm	+/- 3.0mm

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