

Extruded Acrylic (PMMA) Gloss Black Sheet 2mm

General:

Extruded acrylic is acrylic plastic that is manufactured by extrusion. This process involves heating and then feeding the acrylic polymer through a barrel, continuously. The position of the rollers will create the resulting thickness, the manufacturing process creates a material with a higher thickness tolerance, achieving +/-5% variance. Extruded acrylic is easy to laser cut, rout, mould, and polish.

Benefits:

- Extruded acrylic sheet offers excellent thickness tolerance and is extremely easy to vacuum form, making it ideal for applications where complex shapes are required.
- Good for machining, polishing and solvent welding.
- They are slow-burning and do not emit harmful smoke or gases. If extreme strength is not a requirement, PMMA offers an economical (approx.35% cheaper) alternative to Polycarbonate.

Limitations

- Extruded sheet is not available in the same extensive range of colours, thicknesses and finishes.
- Poor solvent resistance: Attacked by ketones, esters & aromatic hydrocarbons.
- Subject to stress cracking
- Low continuous service temperature: (95°C)
- Non modified PMMA is brittle under load and prone to scratching & static build up.
- Not easily biodegradable and difficult to recycle.

ASMPT Applications:

- Covers, panels.

Colours:

- Black Gloss

These values are representative. For critical applications, refer to datasheet.

Mechanical Properties						
	HARDNESS ROCKWELL	TENSILE STRENGTH	YOUNGS MODULUS:	IMPACT STRENGTH	DENSITY	ELONGATION AT BREAK
VALUE	76	70 MPa	2.5GPa	10 kJ/m ²	1190 kg/m ³	4%
TEST METHOD	ISO 2039-2	ISO 527	ISO 527	ISO 179	ISO 1183	ISO 527

Source: Perspex.co.uk

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

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