

NOVALITE®

ABS+PMMA SHEETS

Introducing our innovative NOVALITE® ABS+PMMA sheets - the perfect blend of strength, versatility, and aesthetics. Co-extruded with ABS (Acrylonitrile Butadiene Styrene) and PMMA (Polymethyl Methacrylate), these sheets offer a unique combination of durability and visual appeal.



ENHANCED DURABILITY

The ABS component ensures robustness, making these sheets highly impact-resistant and tough, suitable for a wide range of applications.



VERSATILITY

Their versatility enables them to be easily moulded, shaped, and fabricated, catering to various design requirements.



CHEMICAL STABILITY

The alloy's composition renders it resistant to many chemicals, ensuring long-term stability in diverse settings.



THERMOFORMING CAPABILITIES

These sheets can be easily thermoformed, making them ideal for creating intricately shaped components with precision and ease.



SUPERIOR AESTHETICS

With the addition of PMMA, these sheets boast exceptional clarity, transparency, and a glossy finish, elevating the visual appeal of your projects.



WEATHER RESISTANCE

Exhibiting excellent weather resistance, these sheets maintain their structural integrity and appearance even in challenging environmental conditions.



CUSTOMIZABLE THICKNESS

Available in thicknesses ranging from 2mm to 12mm, offering flexibility for diverse project needs.

Experience the perfect amalgamation of strength and beauty with our NOVALITE® ABS+PMMA alloy sheets, ideal for architectural, automotive, signage, and countless other applications. Elevate your projects with unmatched quality and reliability.

Technical Data Sheet

Product: NOVALITE® ABS+PMMA Sheet - Co-extruded sheets of ABS (Acrylonitrile Butadiene Styrene) and PMMA (Polymethyl Methacrylate)

Applications:

- Sanitaryware
- Automotive & Commercial Vehicles
- Luggage
- Furniture
- Machine Covers

PROPERTY	STANDARD	VALUE	UNIT
Density - ABS/PMMA (Co-Ex)	ISO1183	gr/cm3	1.10- 1.12
Flammability	UL 94	-	HB
Tensile stress at yield	ISO527	MPa	47
Elongation at break	ISO527	%	20
Flexural Strength	ISO178	MPa	70
Flexural Modulus	ISO178	MPa	2500
Heat Deflection Temp. (1.8Mpa)	ASTM D 1525	°C	106
Vicat Softening Temp	ISO 306	°C	95
Surface gloss	ISO2913	%	>92
Thermal conductivity	DIN 52612-1	W/m-K	0.170

Key Features:

Good impact resistance, suited for both vacuum & pressure forming.

Sheet Size Specifications

THICKNESS GAUGE	WIDTH
2 to 12 mm	500 – 2050 mm

Note: The following information represents typical property values that are based on information given by polymer raw material suppliers. We reserve the right to make alterations without further notice. Information in this data sheet is intended as a guide only. No liability is accepted for loss or damage arising from use or reliance on this information, or if such infringes any patent.

ADDITIONAL INFORMATION

- Thermoforming: Ideally Mould draft angles between 4-6% and allow for 0.6-0.8% post Mould shrinkage. Typical forming temperatures are between 130-140°C. During Thermoforming the use of aluminum Mould is strongly advised.
- Storage: If sheet is stored in humid conditions for long periods then it should be dried before thermoforming, ideally at 80°C for approximately 2 hours, plus an additional hour for every 1mm thickness. It is essential that enough space be left between the sheets (20-30mm) to allow correct drying. The time lapse between drying and forming should be minimized in order to save energy and reduce heating time.
- Chemical properties: Under normal ambient conditions, the plastic sheet resists acids, alkalis, light and oxygen, it is also oil and water proof. The plastic easily dissolves in carboxylic acids, esters, incl. intrinsic monomers, ketones, chlorinated and aromatic hydrocarbons.
- Physical properties: high hardness, resistance to temperature changes and atmospheric resistance Operating temperature:
 1. **Heat resistance** – 130-140°C
 2. **Short-duration heating** – 90-100°C
 3. **Long-term usage** – 75-80°C
- Flammability: Ignites under the influence of flame or appropriate amount of heat, flamingly and unstable burns with smoke black. Self-ignition – 350°C
- Electric properties: ABS/PMMA sheets shows good insulation properties and high dielectric strength



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