

ROWAD NATIONAL PLASTIC CO. LTD.

Rowad Acrylic Sheets (RAS)

Typical Properties	Units	Value	ASTM Method
Density	g/cm ³	1.19	D-792
Water Absorption	%	<0.4	D-570
Flammability, UL 94 Classification HB	mm	1.50	UL-94
Tensile Strength at Break	MPa	70	D-638
Elongation at Break	%	5	D-638
Flexural Strength	MPa	100	D-790
Izod Impact Notched	KJ/m ²	3	D-256A / ISO 180
Vicat Softening Point	°C	110	D-1525
Heat Deflection Temperature	°C	100	D-648
Shrinkage	%	<3	BSEN ISO
Relative Permittivity		2.08	
Dielectric Strength	Kv/mm	20	D-149
Dissipation Factor		210	D-150
Light Transmission	%	>85	D-1003
Haze	%	<1.0	D-1003
Refractive Index		1.50	D-542

Features:

Rowad Acrylic sheets (RAS) are thermoplastic sheets with a sparkling crystal clarity and outstanding surface hardness, combined with superior weatherability and good chemical resistance. These high quality extruded sheets, are suitable for a variety of applications. Due to the inherent UV resistance of PMMA, these sheets are very much ideal for outdoor applications. RAS can be easily fabricated and are compatible to almost all fabrication techniques like sawing, forming, routing, shaping and drilling. A few highlights about RAS are outlined here below:

1. Have a light transmission of above 85%
2. Are UV resistant
3. Are light weight
4. Can be easily formed
5. Have good chemical resistance

Applications:

RAS can be used for a variety of applications. A few of these applications are:

1. Decorative sign work and display
2. Light Fixtures
3. Thermoforming
4. Window Glazing
5. Bath Tubs/Shower Trays

Colors:

RAS are available in both transparent and opaque colors. Sheets with designs are also available. New colors as per customer requirement can be developed.

Sizes:

Sheet.

Thickness: 1 – 15 mm

Length: Unlimited but normally 3 meters is widely in use

Width: Thickness of 1 -2mm: 1.22 meters,

Thickness of 2-15mm: Max. 2.05 meters

Resistance to Chemicals:

RAS are resistant to a wide range of chemicals at room temperature. RAS is unaffected by alkalis, non-oxidizing acids, detergents and aliphatic hydrocarbons.

Thermal Characteristics:

RAS exhibit good thermal insulation and prevents heat loss.

Forming and Fabrication:

RAS can be thermoformed, sawed, routed, drilled, etc. Pre-drying of the sheet is an essential requirement prior to vacuum forming. RAS can be easily hot bent and shaped into various shapes and forms. RAS can be bonded to itself or other materials.

Maintenance:

RAS can be easily cleaned with a soft cloth or sponge using mild soap or detergent. Rinse and dry with a soft cotton cloth or moist cellulose sponge to prevent water spotting.

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Disclaimer Notice: This information is given in good faith and to the best of our knowledge, but without any warranty. Users of our materials should determine the suitability for a specific application.

It is always advisable to do preliminary testing. The above data show typical average values only.