

**ROWAD NATIONAL PLASTIC CO. LTD.****Rowad Acrylic Sheet (RAS)**

| Typical Properties | Units | Value | ASTM Method |
|-----------------------------|-------------------|-------|-------------|
| Density | Gm/cc | 1.18 | D 792 |
| Water Absorption | % | < 0.4 | D 570 |
| Flammability | | HB | UL-94 |
| Tensile Strength at Break | Mpa | 65 | D 638 |
| Elongation at break | % | 5 | D 638 |
| Flexural Strength | Mpa | 116 | D 790 |
| Izod Impact Notched | Kj/m ² | 1.9 | D 256A |
| Vicat Softening Point | °C | 110 | D 1525 |
| Heat Deflection Temperature | °C | 97 | D 648 |
| Shrinkage | % | < 3 | BSEN ISO |
| Relative Permittivity | | 2.08 | |
| Di Electric Strength | Kv/mm | 24 | D 149 |
| Dissipation Factor | | 210 | D 150 |
| Light Transmission | % | > 88 | D 1003 |
| Haze | % | < 0.5 | D 1003 |
| Refractive Index | | 1.49 | 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 88%
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:

Thickness: 2 – 15 mm

Length: Unlimited but normally 3 meters is widely in use

Width: up to 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.

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.

Thermal Characteristics:

RAS exhibit good thermal insulation and prevents heat loss.

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

Rowad National Plastic Co. Ltd.
P.O Box 29452
Riyadh 11457
Kingdom of Saudi Arabia
Tel: +966 1 2651966
Fax: +966 1 2651973
Email: << marketing@alrowad.com.sa >>
Web: << www.alrowad.com.sa >>

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.