

ROWAD NATIONAL PLASTIC CO. LTD.**Rowad HIPS Sheets**

| Typical Properties | Units | Value | ASTM Method |
|--------------------------------|-------------------|-------------|-------------|
| Density | Gm/cc | 1.05 | D 792 |
| Flammability | HB | 1/16" | UL-94 |
| Tensile Strength at Break | Mpa | 16 | D 638 |
| Elongation at break | % | 40 | D 638 |
| Tensile Modulus | Mpa | 1900 | D 638 |
| Flexural Strength | Mpa | 116 | D 790 |
| Izod Impact Charpy Unnotched | Kj/m ² | No breakage | D 256A |
| Impact strength Charpy Notched | Kj/m ² | 9 | D 256A |
| Vicat Softening Point | °C | 110 | D 1525 |
| Heat Deflection Temperature | °C | 60 | D 648 |
| Rockwell Hardness | R-Scale | 30 | D 785 |

Features:

Rowad HIPS sheet (RHIPS) is a thermoplastic with elastomer as an additive that gives excellent extrudability, high rigidity and impact strength at low temperatures, high elongation, chemical resistance and resist cracking and splitting. It can also be made more weather resistant and durable for outdoor applications as per customer requirement, by the application of UV layers on both sides.

Applications:

RHIPS has a wide range of applications such as:

1. Refrigerator components
2. House wares and Furniture
3. Molds for Industrial stone
4. General packaging such as jewellery and watches
5. Food Packaging

Colors

RHIPS is available in all custom colors.

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

Roll

Thickness: 0.3 – 1 mm

Length: Normally 30 meters is widely in use

Width: 1.22 meters,

Resistance to Chemicals:

RHIPS has high chemical resistance

Forming and Fabrication:

RHIPS can be thermoformed, sawed, routed, drilled, etc.

Weatherability:

RHIPS can withstand prolonged periods of exposure to weather and sunlight without yellowness and stress cracking due to the presence of UV stabilizers and protective covers.

Mechanical Properties:

RHIPS has high resistance against cracking and splitting due to high elongation

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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.