

# Technical Data Sheet - EPS Material

Material: Expanded Polystyrene (EPS)

## General Properties:

- Appearance: White rigid foam
- Odor: Odorless
- Structure: Closed-cell

## Density Range:

- Standard: 10-30 kg/m<sup>3</sup>
- Custom: Up to 40 kg/m<sup>3</sup> available upon request

## Standard Thickness Options:

- Sheets: 10mm to 100mm
- Molded Shapes: 25mm to 50mm wall thickness (customizable)

## Thermal Conductivity (k-value):

- Typical Range: 0.030 - 0.038 W/m·K
- Varies with density and thickness

## Thermal Resistance (R-values):

- R-Value per 25mm (1 inch): Approx. 3.85 ft<sup>2</sup>·°F·h/BTU
- Higher thickness = higher R-value

#### Water Absorption:

- Less than 2% by volume after 24 hours (immersion test)

#### Compressive Strength:

- 70-250 kPa (varies by density)

#### Fire Behavior:

- Flammable - must be protected by fire-resistant barriers

#### Environmental Impact:

- 100% recyclable
- CFC and HCFC-free manufacturing process

#### Usage:

EPS is suitable for packaging, thermal insulation, cold chain logistics, and construction applications.

#### Manufacturer:

Ayesha EPS Insulation Limited

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