

Technical Datasheets

Closed-Cell Polyurethane Foam

Closed-cell polyurethane foam is a rigid material characterized by an internal structure made up of completely sealed cells. This configuration gives the material high mechanical strength, water resistance, and excellent thermal and acoustic insulation properties. Thanks to its higher density (30-60 kg/m³ or more), it is commonly used for:

- Thermal insulation in construction (roofs, walls, floors)
- Structural reinforcement
- Industrial applications requiring resistance to moisture or compression

Advantages:

- Excellent thermal insulation (λ 0.020-0.025 W/mK)
- Impermeable to air and water
- High rigidity and long-term durability

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Open-Cell Polyurethane Foam

Open-cell polyurethane foam is a flexible or semi-rigid material with an internal structure where the cells are not completely closed, allowing air and moisture to pass through. It has a lower density (10-20 kg/m³) compared to the closed-cell version and is ideal for:

- Sound insulation (sound absorption)
- Filling cavities or irregular spaces
- Non-structural applications where breathability is important

Advantages:

- Greater breathability
- Lighter and more cost-effective
- Good sound-absorbing properties

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