

Technical Datasheets

Open-Cell Polyester Foam

Open-cell polyester foam is a lightweight, flexible, and versatile material ideal for filtration, acoustic absorption, protection, and padding applications. Thanks to its uniform structure, it offers excellent performance in industrial, HVAC, automotive, and electronic fields.

Key Features:

- Open-cell structure providing excellent air permeability and filtering capacity
- Moisture-resistant and withstands many atmospheric agents
- Good tolerance to light oils and oily vapors in non-critical applications
- Highly workable: easy to cut, die-cut, and shape
- Recyclable material, available in flame-retardant versions

Oil Filtration: When It's Suitable

Polyester foam can also be used for:

- Filtration of oil vapors or mists
- Prefilters in compressors or systems using light oils
- Temporary or low-exposure oil applications

Limitations:

Not recommended for direct, prolonged contact with hot or aggressive mineral oils, as the material may degrade over time.

Available Colors:

- Standard: black, anthracite grey
- Optional: blue, green, red, white

Available Densities:

15-35 kg/m³, depending on the intended application:

- 15-20 kg/m³: lightweight use, packaging, prefiltration
- 25-30 kg/m³: HVAC, acoustics, light air/oil filters
- 35+ kg/m³: technical use, fine filtration, custom-shaped components

Available Formats:

- Sheets and rolls (from 3 mm to 100 mm)
- Full blocks
- Custom die-cut parts for OEM and industrial production

Common Applications:

- Air and ventilation filters (HVAC, electronics, automation)
- Prefiltration of light oils or vapors
- Acoustic absorption in technical panels
- Component protection and technical packaging
- Technical sponges for cosmetics or cleaning

Advantages:

- High customizability
- Good mechanical strength
- Affordable, durable, and lightweight
- Available in flame-retardant, self-adhesive, or oleophobic versions (on request)
- REACH and RoHS compliant