

EPO (Expanded Polyolefin)

Key Features

Impact resistance • Chemical resistance •
Density < 1 g/cm³ • Lightweight

Applications

End use parts • Automotive • Industry •
Packaging

Product Description

Expanded Polyolefin (EPO) is a high-performance hybrid bead foam that combines the lightweight thermal insulation and rigidity of expanded polystyrene (EPS) with the toughness, chemical resistance, and durability of polyolefin. Engineered for molding into complex shapes, it offers outstanding impact protection, dimensional stability, and long-term durability in repeated-use applications. EPO is widely used for automotive components, precision protective packaging, reusable industrial containers, and thermal or acoustic insulation.

Properties*

Tensile strength	0.35 MPa
Tensile elongation	6.3%
Flexural strength	0.37 MPa
Flexural modulus	5.8 MPa
Compressive strength @25% strain	0.16 MPa
Compression set (ASTM D 3575)	17.9%
Density	0.025 g/cm ³

*Data based on a 60 g/L density material

Reference

For more detailed source information, please consult the original document linked [here](#). We encourage users to verify the data's relevance and suitability for their specific needs.

