Foam Moulding

EPP (Expanded Polypropylene)

Key Features

Chemical resistance • Thermal insulation • Impact resistance • Density < 1 g/cm^3 • Lightweight

Applications

Prototyping • End use parts • Automotive • Engineering • Packaging

Product Description

Expanded Polypropylene (EPP) is a lightweight, highly durable bead foam known for its outstanding energy absorption, chemical resistance, and thermal insulation. Molded into complex shapes, it is ideal for protective packaging, impact-resistant components, automotive parts, reusable containers, and lightweight structural elements. Its excellent strength-to-weight ratio, resilience, and recyclability make it suitable for both industrial and consumer applications.

Properties*

Tear strength	3.25 KN/m
Tensile strength	0.62 MPa
Tensile elongation	14%
Compressive strength @25% strain	0.39°C
Flexural strength	0.72 MPa
Flexural modulus	19 MPa
Water absorption	5.1 gms/cc x 10^{-3}
Coefficient of thermal expansion (20°C to -40°C)	4.3 mm/mm/°C x 10^{-5}
Density	60g/L

*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.