

Polystyrene (PS)

Key Features

Stiffness • Transparency • Flame retardancy

Applications

End-use parts • Electronics • Construction • Packaging • Healthcare • Consumer goods

Product Description

Polystyrene (PS) is a high-rigidity resin known for its excellent clarity, dimensional stability, and ease of processing. This cost-effective injection molding material is widely used in the packaging industry for food containers and disposable cutlery, consumer goods like household items and toys, electronics for housing components, healthcare for medical disposables, and construction for insulation materials. It has a UL 94-HB flammability rating.

Properties*

Tensile strength	52.2 MPa
Tensile elongation	52%
Flexural modulus	2,930 MPa
Heat deflection temperature (0.45 MPa)	98.9°C
Flame retardancy	UL 94-HB

*Based on material Bapolene® 6045

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.

