

Polypropylene (PP)

Key Features

Chemical resistance • Flexibility • Impact resistance • Density < 1 g/cm³ • Flame retardancy

Applications

End-use parts • Automotive • Industrial • Packaging • Consumer goods

Product Description

Polypropylene is a versatile resin known for its high chemical resistance, good impact strength, excellent flexibility, and low density. Ideal for injection molding, this material is widely used in the automotive industry for interior trim and battery cases, packaging for food containers and bottle caps, consumer goods like storage containers and furniture, healthcare for medical device components, and industrial applications such as piping systems and tanks.

Properties*

Tensile strength	34.5 MPa
Flexural modulus	1,450 MPa
Notched Izod Impact (23°C)	27 J/m
Heat deflection temperature (0.45 MPa)	96.1°C
Density	0.99 g/cm ³
Flame retardancy (1.5 - 3.0 mm)	UL 94 V-0

*Based on material AuroraGuard™ F02001

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.

