

PET

Key Features

Stiffness • Impact resistance • Chemical resistance • Electrical insulation

Applications

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

Product Description

PET is a high-performance polyethylene terephthalate (PET) resin known for its excellent mechanical strength, dimensional stability, chemical resistance, and high heat resistance. This injection molding material is widely used in the automotive industry for under-the-hood components and housings, electrical and electronics for connectors and insulators, consumer goods such as appliance parts and power tools, industrial applications like gears and bearings, and the packaging industry for high-strength, heat-resistant materials.

Properties*

Tensile modulus	2,500 MPa
Yield stress	58 MPa
Stress at break	58 MPa
Melting temperature (10°C/min)	255°C
Heat deflection temperature (0.45 MPa)	68°C
Volume resistivity	>1E13 Ohm*m
Humidity absorption	0.3%
Density	1.16 g/cm ³

*Based on material Arnite® A02 307

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.

