

ABS Technical Datasheet

Key Features

- High rigidity and dimensional stability
- Resistance to impact and scratches
- Low melting point
- High weldability
- High strength-to-weight ratio

Common Applications

- Injection molding
- Aerospace interior
- Automotive parts
- Enclosures
- Covers
- Structural Components
- Machined Prototypes

Material Description

ABS, or Acrylonitrile Butadiene Styrene, is a common thermoplastic polymer known for its toughness, impact resistance, and ease of processing. It is widely used in various industries for its versatility and cost-effectiveness. ABS has good mechanical properties and can be easily molded, extruded, and thermoformed, making it suitable for a wide range of applications, including automotive components, household appliances, toys, and consumer electronics. It is also known for its ability to be easily painted and glued, as well as its resistance to chemicals and abrasion. ABS is available in various grades and colors to meet specific application requirements.

Mechanical Properties

Ultimate Tensile Strength Tensile Yield Strength Hardness Elongation at Break 41.0 MPa 44.8 MPa Rockwell R108 28.5%

Physical Properties

Density Thermal Conductivity Modulus of Elasticity Melting Point 0.039 lb/in³ (1.07 g/cm³) 0.162W/m.K 2.35 GPa 234 °C

Technical Assistance

Our knowledgeable staff, supported by our in-house team of expert metallurgists and engineers, is ready to assist you with any technical inquiries.

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