

ABS

Key Features

Impact resistance • Flame retardancy • UV resistance • Smooth surface

Applications

End-use parts • Jigs and fixtures • Automotive • Electronics • Machine building • Consumer goods

Product Description

ABS is a high-strength, thermoplastic acrylonitrile-butadiene-styrene (ABS) resin known for its excellent toughness, high impact resistance, and superior surface finish. Its properties, including anti-UV and UL94 HB rating at 1.2mm-3.0mm, make it ideal for automotive parts, consumer electronics, household appliances, toys, and construction fittings. Suitable for injection molding, ABS can also be blended with other resins to create new applications and enhance performance across various industries.

Properties*

Tensile strength	45 MPa
Tensile strain at break	15%
Flexural strength	68 MPa
Flexural modulus	2,300 MPa
Izod Notched Impact Strength	20 kJ/m ²
Vicat softening temperature	95°C
Heat deflection temperature (1.80 MPa)	83°C
Molding shrinkage (23°C)	0.4 - 0.7%
Volume resistivity	10 ¹⁶ Ω·cm
Density	1.04 g/cm ³
Hardness (Rockwell, R-scale)	110
Flame retardancy (1.2 - 3.0 mm)	UL 94-HB

*Based on material Kingfa ABS-660

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.

