Data Sheet

ASA

Alternative Designations

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Key Features

High impact and wear resistance • Excellent mechanical properties • Resistant to UV light and chemicals

Description

This is an amorphous thermoplastic with improved weather resistance. It is widely used in prototyping in 3D printing due to its UV resistance and excellent mechanical properties. It has good resistance to chemicals and heat, with a glass transition temperature of 100°C. ASA is available in a large variety of colours.

Mechanical Properties

Tensile modulus	2059 MPa
Tensile strength	47.6 MPa
Elongation at break	26%
Flexural strength	74.5 MPa
Flexural modulus	2.19 GPa
Hardness (Shore D)	104

Thermal Properties

Heat deflection temperature (1.80 MPa)	88 – 94°C
Softening temperature	98°C

Physical Properties

Density	1.05 g/cm^3

Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.