

ASA

Key Features

Impact resistance • Wear resistance • UV resistance • Chemical resistance

Applications

Prototyping • End-use parts • Tooling. Automotive • Electronics • Consumer goods

Product Description

ASA filament (acrylonitrile styrene acrylate) is a versatile 3D printing thermoplastic ideal for various applications. With a chemical composition akin to ABS plastic, ASA offers enhanced mechanical properties, superior aesthetics, and UV resistance. Available many colors, ASA provides a wide range of options for FDM printing.

Properties

Tensile modulus (XZ, ZX)	2,140, 2,050 MPa
Tensile strength at break (XZ, ZX)	31.9, 28.3 MPa
Elongation at break	5.9, 1.8%
Flexural strength at 5% strain	61.5 MPa
Flexural modulus (XZ, ZX)	1,980, 1,760 MPa
Heat deflection temperature (0.45 MPa)	102.2°C
Heat deflection temperature (1.80 MPa)	97.9°C
Glass transition temperature	103.55°C
Thermal conductivity (ASTM E1952 @30°C)	0.1642 W/m*K
Density	1.08 g/cm ³

