

ASA

With ASA you can build consistently high-quality parts, with exceptional UV stability and the best aesthetics of any FDM[®] thermoplastic.

Matching or exceeding the mechanical properties of ABS, ASA may be your new favorite general prototyping material. Its UV-resistance makes it especially suited in end-use parts for outdoor commercial and infrastructure

use. And its wide selection of colors and matte finish makes it ideal for attractive prototypes in consumer sporting goods, tools and automotive components and accessories.

Mechanical Properties	Test Method	Metric
Tensile Strength, (Type 1, 0.125", 0.2"/min)	ASTM D638	27-29 MPa
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	1,950-2,010MPa
Tensile Elongation at Break (Type 1, 0.125", 0.2"/min)	ASTM D638	3-9%
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	1,630-1,870 MPa
Flexural Strength	ASTM D790	48-60 MPa
IZOD, nothed (Method A, 23°C)	ASTM D256	64 J/m
IZOD un-notched, Method A, 23°C)	ASTM D256	321 J/m

Thermal Properties	Test Method	Metric
Heat Deflection (HDT) @ 66 psi	ASTM D648	98°C
Heat Deflection (HDT) @ 264 psi	ASTM D648	91°C
Vicat Softening Temperature	ASTM D1525	103°C
Glass Transition (Tg)	DMA (SSYS)	108°C
Melting Point	Not Applicable	Not Applicable