

Process: FFF - Fused Filament Fabrication

ABS is a filament used in the FFF process to produce a strong and tough part with its exceptional mechanical properties. Our FFF ABS can be used for a wide range of applications, such as prototyping for injection molding ABS parts.

MECHANICAL PROPERTIES	TEST METHOD	METRIC	IMPERIAL
Tensile Modulus	ISO 527	1681.5 MPa	243 ksi
Tensile Stress at Yield	ISO 527	39 MPa	5656 psi
Tensile Stress at Break	ISO 527	33.9 MPa	4916 psi
Elongation at Yield	ISO 527	3.50%	3.50%
Elongation at Break	ISO 527	4.8%	4.8%
Flexural Strength	ISO 178	70.5 MPa	10225 psi
Flexural Modulus	ISO 178	2070 MPa	300 ksi
Izod Impact Strength	ISO 180	10.5 kJ/m ²	5 ft lb/in ²
Hardness	Durometer	76D	76D
Colors		Request Availability	
THERMAL PROPERTIES	TEST METHOD	METRIC	IMPERIAL
Vicat Softening	ISO 306	97 deg. C	206 deg. F

Note: Materials specified are stocked materials, other materials may be available upon request. The information on the material properties are obtained from the material manufacture and SICAM expressly disclaims any product warranties and cannot guarantee the accuracy of the information presented.