

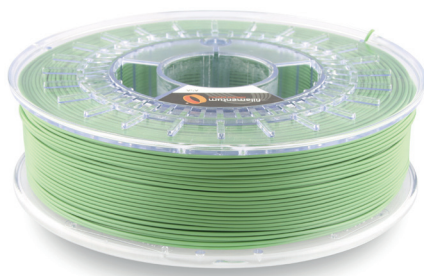
ASA Extrafill

Description:

Thanks to mechanical properties is ASA filament a polymer which is ideal for the production of the first functional samples before serial production for functional prototyping, manufacturing tools, but also for the production of goods for everyday usage including outdoor applications.

The advantage of this material is its excellent weather resistance, retention of physical features; eg. ASA has a rigidity higher than ABS and thus is suitable material for demanding applications. ASA material has low levels of yellowing, which is very important for applications where long-term emphasis is placed on appearance. Another advantage is its good dimensional stability.

Fillamentum does not take any responsibility for the usage of Extrafill ASA by the processor.



Physical properties	Typical Value	Test Method	Test Condition
Material density	1,07 g/cm ³	ISO 1183	
Melt volume index	6 cm ³ /10 min	ISO 1133	220 °C, 10 kg
Diameter tolerance	± 0,05 mm		
Weight	750 g of filament (+ 250 g spool)		

Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength	42 MPa	ISO 527	50 mm/min
Tensile modulus	1800 MPa	ISO 527	1 mm/min
Elongation at break	25 %	ISO 527	50 mm/min
Flexural strength	65 MPa	ISO 178	2 mm/min
Flexural modulus	2000 MPa	ISO 178	2 mm/min
Charpy impact strength	45 kJ/m ²	ISO 179	notched

Thermal properties	Typical Value	Test Method	Test Condition
Melting temperature	220-250 °C		
Heat distortion temperature	95 °C	ISO 75	1,8 MPa
	99 °C	ISO 75	0,45 MPa
Vicat softening temperature	96 °C	ISO 306	50 °C/h, 0,5 kg
Coefficient of linear thermal expansion	9 · 10 ⁻⁵	ISO 11359	

Printing properties	Typical Value	Test Method	Test Condition
Print temperature	250-255 °C		
Hot pad	90-100 °C		
Speed of printing	30-40 mm/s		
Mold shrinkage	0,3-0,6 %	ISO 2577	parallel

Workability of 3D printing filament is at least 12 months from delivery.

The information was processed with the best knowledge of the manufacturer and it is for information only.