



Technical specification

Everfil™ ASA

Acrylonitrile styrene acrylate (ASA), also called **acrylic styrene acrylonitrile**, is a developed as an alternative to acrylonitrile butadiene styrene (ABS), but with improved weather resistance, and is widely used in the automotive industry. It is used for general prototyping in 3D printing, where its UV resistance and mechanical properties make it an excellent material for use in fused deposition modelling printers.

TRADE NAME : EVERFIL™ ASA

COMMON PARAMETERS

Filament	Parameters	Nom value unit	Test Metod
Diemeter	1,75 , 2,85	mm	-
Tolerance	+/- 0,03	mm	-
Weight	1,0 , 3,0	kg netto	-

Physikal	Parameters	Nom value unit	Test Metod
Density	1,08	g/cc	ASTM D729
Melt Mass-Flow Rate (MFR)	20	g/10min	ASTM D1238
Water absorption	0,25-0,35	%	ASTMD570
Clarity	Non transparent		

Mechanical	Parameters	Nom. Value unit	Test Metod
Tensile Yield Strength	500	Kg/cm2	ASTM D638
Rockwell Hardness	107	-	ASTM D785
Tensile Modulus	22,100	Kg/cm2	ASTM D638
Charpy Impact Strength	33,5 (23°C)	kJ/m2	ISO 179
IZOD Impact Strength	14,0 (23°C)	Kg-cm/cm	ASTMD256
Flexural Strength	800	Kg/cm2	ASTMD790
Heat Deflection Temp.	87	°C	ASTM D648

PRINT CONDITIONS Everfil™ ASA

3D Printers	Typical Value	Unit
Printing temperature	230 – 245	°C
Bed temperature (is required)	85 – 100	°C
Cooling (according to design)	10 – 30	%

STORAGE

Filament can't handle moisture very well and that is why we recommend storing your filament in a cool, dry environment, ideally in a package vacuum sealed with silicate

