SEALOVATION
INNOVATIVE SEALING SOLUTIONS

Material Data Sheet ASA 78.3D

Elastomer	ASA	Acrylester-Styrol-Acrylnitril
Hardness	78	Sh D
Printing Temperatures	up to 200	°C
Colour	similar RAL	
Remarks	Print of mech./functional parts for outside use.	

Printing properties

Nozzle Temperature	260 ± 10	°C	
Heatbed Temperature	110 ±5	°C	
Print speed	up to 200	mm/s	
Skirt height	up to the height of printed parts		
Fan speed	70-100	%	

Mechanical properties

Density	1,07	g/cm3	ISO 1183
MFR 220°C / 10 kg	21	g/10min	ISO 1183
MVR 220°C / 10 kg	22	cm3/10min	ISO 1183
Moisture Absoption 24 hours (28°C / humidity 37 %)	0,23	%	Prusa Polymers
Moisture Absoption 7 days (28°C / humidity 37 %)	0,25	%	Prusa Polymers
Heat deflection Temperature (0,45 MPa)	93	°C	ISO 75
Heat deflection Temperature (1,80 MPa)	86	kN/m	ISO 75
Interlayer adhesion	11 ± 1	MPa	Prusa Polymers
Mechanical properties of printed samples	**Horizontal**	**Vertical**	
Tensile Yield Strength	42 ±1	45 ± 2	ISO 527-1
Tensile Modulus	1,7 ±0,1	1,7 ±0,1	ISO 527-1
Elongation at Yield Point	3,4 ±0,2	3,8 ±0,2	ISO 527-1
Flexural strength	64 ±1	69 ± 1	ISO 178
Flexural modulus	2,0 ±0,1	2,9 ±0,1	ISO 178
Deflection at Flex. strength	9 ±0,1	9 ±1,0	ISO 178
Impact Strength Charpy	25 ± 3	38 ± 11	ISO 179-1
Impact S.Charpy notch	12 ± 1	15 ± 3	ISO 179-1

Note
The test results are mean values and represent typical material properties. They are gained under usual laboratory conditions and do not necessarily correspond to results measured on finished goods. The compound information does not release the user from the necessity to conduct his own testing's. Production methods and ingredients are subject to change with regard to technical progress and toxicological regulations
This document does not subject to a revision service

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ASA Acrylester-Styrol-Acrylnitril

- ASA ist resistent gegenüber diversen Chemikalien, Feuchtigkeit und Hitze,
- ASA ist nicht resistent gegenüber Aceton Kohlenwasserstoffe, diverse Ester, Ether
- Schlagfestigkeit und die Chemikalienresistenz mit steigender Temperatur ab -
- Durch die UV-Beständigkeit dauerhaft beständige Farben.

Nachbearbeitung:

- kann durch Acetondämpfe nachbehandelt werden

ASA Acrylester-Styrol-Acrylnitril

- ASA is resistant to various chemicals, moisture and heat,
- ASA is not resistant to acetone Hydrocarbons, various esters, ethers
- impact resistance and the chemical resistance decreases with increasing temperature -
Due to the UV-resistance permanently
resistant colours.

Refinishing:

- can be refinished with acetone vapours

Note
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