Technical Document

RS PRO – ASA PRO

Stock numbers:
174-0040 / 174-0041 / 174-0042 / 174-0043 / 174-0044 / 174-0045 / 174-0047 /
174-0048 / 174-0049 / 174-0050 / 174-0051 / 174-0053 / 174-0054 / 174-0055

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RS PRO - ASA PRO is our highly modified "industrial-grade" ASA filament with many features like UV resistance, zero warp technology and excellent mechanical properties. ASA PRO is the perfect replacement when you require a performance material without the problems that can arise during printing with, for example, ABS. ASA PRO not only has great strength and interlayer adhesion but also features one of the best aesthetics possible with FDM 3D printing. The reliable bed adhesion will ensure a smooth printing experience. ASA PRO is perfect when you are looking for beautiful and strong prints that also last outside.

Features:
- UV / Weather resistant
- Zero warp technology
- Excellent interlayer adhesion
- Great strength & aesthetics
- Reliable bed adhesion (Glass, tape & other adhesives)

Colours:
RS PRO - ASA PRO is available from stock in 7 colours.
Packaging:
RS PRO - ASA PRO is available in 500 grams packaging.

Filament specs.		
Size	**Ø tolerance**	**Roundness**
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Material properties		
Description	**Testmethod**	**Typical value**
Specific gravity	ISO 1183	1,11 g/cc
MFR 220˚C/10 kg	ISO 1133	26,6 gr/10 min
Tensile Strength at Yield	ISO 527	47,5 Mpa
strain at break	ISO 527	15%
Tensile modulus	ISO 527	2020 Mpa
Impact strength - Charpy notched 23˚C	ISO 179	18 kJ/m^2
Printing temp.	Print lab	245±10˚C
Melting temp.	ISO 294	230±10˚C
Vicat softening temperature	ISO 306	98˚C

Additional information:
Recommended temperature for heated bed is ± 80-90˚C.
ASA Pro is printed at high temperatures to make the final product extra strong.
ASA Pro can be used on all common desktop FDM or FFF technology 3D printers.
Storage: Cool and dry (15-25˚C). This enhances the shelf life significantly.

rspro.com