Technical Document

RS PRO – ABS PRO

Stock numbers:
174-0013 / 174-0014 / 174-0015 / 174-0016 / 174-0017 / 174-0019 / 174-0020 / 174-0021 / 174-0022 /
174-0023 / 174-0025 / 174-0026 / 174-0027 / 174-0028 / 174-0029 / 174-0031 / 174-0032 / 174-0033 /
174-0034 / 174-0035 / 174-0036 / 174-0037 / 174-0038 / 174-0039

EN

ABS PRO is our take on a next-generation ABS filament. By applying our zero warp technology to the filament we have created a filament with far less cracking, proven near perfect interlayers, reliable bed adhesion (glass, tape & other adhesives) while improving the mechanical properties making ABS PRO extra strong. These properties make ABS PRO the ultimate ABS replacement that prints strong and beautiful parts on any FDM 3D printer without the common headaches associated with regular ABS like warping & horrible bed adhesion. ABS PRO is the perfect material for strong objects that require an high impact tolerance.

Features:
- Zero warp technology
- Excellent interlayer adhesion
- Reliable bed adhesion (Glass, tape & other adhesives)
- Enhanced mechanical properties over regular ABS
- Great strength & aesthetics

Colours:
RS PRO - ABS PRO is available from stock in 12 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	1,1 g/cc
MFR 260˚C/5 kg	ISO 1133	41 gr/10 min
Tensile strength at yield	ISO 527	43,6 Mpa
strain at break	ISO 527	34%
Tensile modulus	ISO 527	2030 Mpa
Impact strength - Charpy notched 23˚C	ISO 179	58 kJ/m^2
Printing temp.	Print lab	245±10˚C
Melting temp.	ISO 294	235±10˚C
Vicat softening temperature	ISO 306	97˚C

Additional information:
Recommended temperature for heated bed is ± 80˚C.
ABS PRO is printed at high temperatures to make the final product extra strong.
ABS 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