Datasheet

RS PRO -PLA

Stock numbers:
125-4335 / 125-4336 / 125-4337 / 125-4338 / 125-4339 / 125-4340 / 125-4341 / 125-4342 / 125-4343 / 125-4344 /183-0262 / 183-0264 / 183-0266 / 183-0267 / 183-0268 / 183-0271 / 183-0272 / 183-0274 / 183-0275 / 183-0276 / 183-0280 / 183-0281 / 183-0283 / 183-0285 / 183-0287 / 183-0289 / 183-0291 / 183-0294 / 183-0296 / 183-0299 / 832-0210 / 832-0214 / 832-0220 / 832-0223 / 832-0226 / 832-0232 / 832-0236 / 832-0239 / 832-0242 / 832-0245 / 832-0248 / 832-0251 / 832-0254 / 832-0258 / 832-0260 / 832-0264 / 832-0267 / 832-0270 / 832-0273 / 832-0276 / 832-0282 / 832-0286 / 832-0289 / 832-0292 / 832-0295 / 832-0298 / 832-0302 / 832-0305 / 832-0309 / 832-0318 / 832-0400 / 832-0403 / 832-0406 / 832-0412 / 832-0416 / 832-0419 / 832-0422 / 832-0425 / 832-0428 / 832-0431 / 832-0434 / 832-0438 / 832-0440/ 832-0444 / 832-0447 / 832-0664 / 832-0668 / 832-0677 /

EN

PLA is a tough, easy to use high grade PLA type of filament, ideal for 3D printing. Slightly modified, the filament retains the typical features of PLA, but makes it tougher and less brittle. Due to a low shrinkage factor PLA will not deform after cooling. Poly Lactic Acid is a biodegradable plastic made from renewable natural resources and is one of the most popular materials for 3D printing

Features:

- **Tougher and less brittle compared to regular PLA**
- **Easy to print at low temperature**
- **Low warping**
- **Biodegradable & Limited smell**

RS PRO - PLA is available from stock in a large selection of bright colours.
RS PRO – PLA is available in 300 grams, 1 kg and 2.3 kg packaging.

Filament specs.		
Size	**Ø tolerance**	**Roundness**
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%
Physical properties		
Description	**Testmethod**	**Typical value**
Specific gravity	ISO 1183	1,24g/cc
MFR 210°C/2,16 kg	ISO 1133	9,56 gr/10 min
Tensile strength at yield	ISO 527	70 Mpa
Strain at yield	ISO 527	5 %
E-Modulus	ISO 527	3120 Mpa
Impact strength - Charpy method 23˚C	ISO 179	3,4 kJ/m2
Thermal properties		
Description	**Testmethod**	**Typical value**
Printing temp.	-	205±10°C
Melting temp.	ISO 11357	115±35°C
Vicat softening temp.	ISO 306	60°C

Additional information:
Due to its low tendency to warp PLA can also be printed without a heated bed. If you have a heated bed the recommended temperature is ± 35-60˚C.
PLA can be used on all common desktop 3D printers. (FDM or FFF technology)
Storage: Cool and dry (15-25˚C) and away from UV light. This enhances the shelf life significantly.

- Bed adhesion: Glass Plate or Tape or Hairspray
- Print speed: Medium
- Fan speed: Medium/ high
- Retraction: +-5mm
- Layer Height: >0,1mm