

RPLA

MCPP Netherlands has implemented a new process of recycling our own post-industrial waste, which couldn't directly be re-used during production. We collect our own industrial waste by collecting per material (and most materials per colour), shredder this per material and make it homogeneous by compounding and then extruding it again. This process has been fully implemented and is ready to be improved and expanded!

PLA is one of the best sellers in the 3D printing world. Naturally, reducing the waste streams of our PLA is our priority. As a recycled material, our RPLA (97% recycled) is now available in 8 different colours. We found out that print performance is almost the same (if not better) as our regular PLA.

Material features:

- Post Industrial waste (>97% recycled)
- Easy to print at low temperatures
- Low warping
- Limited smell

Colours:

RPLA is available from stock in 8 colours.



Packaging:

RPLA is available in nearly any type of packaging and labelling. Ask our team to help you customizing your product.

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	1,24 g/cc
MFI 210°C / 2,16kg	ISO 1133	11 g/10min
Tensile strength	ISO 527	63 Mpa
Elongation at break	ISO 527	4 %
Tensile modulus	ISO 527	3251 Mpa
Charpy Impact strength 23°C	ISO 179	2,2 kJ/m2
Printing temp.	DF	210±10°C

Additional info:

Due to its low tendency to warp RPLA can also be printed without a heated bed. If you have a heated bed the recommended temperature is ≤60°C.

RPLA can be used on all common desktop FDM or FFF technology 3D printers.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

**Please note, we try to match the colour closely over different batches. Nevertheless, we are dependent on the composition of the waste streams, which deviate in colour and therefore the result might be slightly different from batch to batch. Also because of the mixed colours containing different types of pigment, the contained red pigment in all colours tends to be left behind in the nozzle after printing. We advise more cold pulls when cleaning the nozzle.*