

FGF PPL

PPL is our special purpose Polypropylene, being specifically developed for having a very low density. This makes it perfect for objects where weight is a key factor. The surface has a matte finish and is resistant to absorbing moisture. Together with the chemical resistance of PP, PPL has unique qualities that aren't found in any other material which makes it an ideal choice for special projects. Although PPL features less warping than regular PP, it is still prone to heat warping.

Material features:

- Very Low density
- Good chemical resistance
- Good adherence on PP plate
- Floats

Colours:

Colours on request. Ask your accountmanager.

Packaging:

FGF PPL is available in 15kg bag

Processing recommendations		
Drying		3hr,60°C. <1000ppm
Zone 1 Temperature		170±20 °C
Zone 2 Temperature		180±20 °C
Zone 3 Temperature		180±20 °C
Mass temperature		185-193 °C
Die temperature		195±20 °C

Material properties		
Description	Testmethod	Typical value
Specific gravity	ISO 1183	0,75 g/cc
MFR 200°C/5 kg	ISO 1133	5,8 g/10min
Tensile Strength at Yield	ISO 527	15 Mpa
Tensile Strength at Break	ISO 527	13,5 Mpa
Elongation-Strain at Yield	ISO 527	10%
Elongation-Strain at Break	ISO 527	30%
Tensile modulus	ISO 527	775 Mpa
Impact strength - Charpy notched 23°C	ISO 179	4,3 kJ/m2
Vicat softening temperature	ISO 306 B50	80,3°C
Mold shrinkage	internal method (ISO 294-4 based)	N/A

Additional info:

When PPL prints too "grainy", try purging the nozzle. Using a Gear pump or using high shear can affect the density of the material. Although drying is not necessarily required, it is advised to dry slightly.

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