

TECHNICAL DATA SHEET

ReForm rPP GF30 UV

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ReForm rPP GF30 UV – High-Performance Recycled Polypropylene Workhorse for LFAM

ReForm rPP GF30 UV is a high-performance, recycled polypropylene (rPP) composite reinforced with 30% glass fibers. It is specifically engineered for Large Format Additive Manufacturing (LFAM) applications. This advanced 3D printing material is designed for demanding industrial environments and delivers an excellent stiffness-to-weight ratio, reduced warpage, and outstanding mechanical and dimensional stability. This makes ReForm rPP GF30 UV a highly versatile solution for large-scale additive manufacturing.

Thanks to its enhanced UV stabilization, ReForm rPP GF30 UV is perfectly suited for both indoor and outdoor 3D printing applications, where long-term exposure to sunlight and environmental conditions is required.

Built on FormFutura's proprietary low-warp technology, ReForm rPP GF30 UV is among the easiest-to-process glass fiber-reinforced polypropylene materials available for LFAM. This compound is truly LFAM-optimized. It enables users to produce large, lightweight structures with excellent layer adhesion, consistent print quality, and reliable performance.

ReForm rPP GF30 UV is a proven workhorse material for LFAM, which makes it the material of choice for applications that demand high stiffness, durability, UV resistance, and low moisture absorption at large scale. It is well suited for marine and water-adjacent applications, industrial tooling, outdoor components, transportation parts, infrastructure elements, and other functional LFAM applications.

Key Features of ReForm rPP GF30 UV Pellets for LFAM

- Recycled, high-performance PP composite truly optimized for LFAM with minimized warpage;
- 30% chemically coupled glass fiber reinforcement for enhanced stiffness and structural strength;
- Maximum UV resistance for prolonged outdoor exposure;
- High Chemical Resistance and High Heat Resistance;
- European-Made Quality Compound.

Suitable Applications of ReForm rPP GF30 UV Pellets for LFAM

- **Industrial Equipment & Machine Components** – Manufacturing large housings, covers, guards, ducts, and structural panels;
- **Outdoor & Infrastructure Parts** – 3D printing utility enclosures, electrical cabinets, agricultural equipment parts, and outdoor furniture components;
- **Marine & Water-Adjacent Applications** – Printing boat components, dock accessories, buoys and protective covers;
- **Construction & Building Systems** – Producing temporary structures, ventilation ducts, and protective panels;
- **Automotive & Transportation** – 3D printing exterior body panels (non-Class A), battery housings, underbody shields, truck fairings, covers, and enclosures.

Material properties	Typical value	Test Method
MFI (230°C, 2.16kg)	3,5 g/10min	ISO 1133
Density (23°C)	1,10 g/cm ³	ISO 1183
Moisture content	<0,2%	

Mechanical properties	Typical value	Test Method
Tensile strength (5mm/min)	45 MPa	ISO 527
Elongation at brake (5mm/min)	6%	ISO 527
Tensile E-modulus (1mm/min)	4500 MPa	ISO 527
Charpy notched impact strength (23°C)	44 kJ/m ²	ISO 179

Thermal properties	Typical value	Test Method
HDT A	135 °C	ISO 75
HDT B	150 °C	ISO 75
Melt temperature	190 - 250 °C	-



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Processing Recommendations for ReForm rPP GF30 UV Pellets for LFAM

Pre-Drying: 3-4hrs at 60-70 °C (<100ppm)

For optimal 3D printing results it is recommended to pre-dry ReForm rPP GF30 UV pellets to a moisture content below 100 ppm using a dryer with dehumidifier.

Zone 1: 210 °C ±20 °C

Zone 2: 220 °C ±20 °C

Zone 3: 230°C ±20 °C

Max temp: 250 °C

Die temp: 230°C ±20 °C

Typical extrusion settings may require optimization based on hardware used.

Storage and Handling Guidelines for ReForm rPP GF30 UV Pellets for LFAM

ReForm rPP GF30 UV is considered an inert and safe material under standard storage conditions, presenting no significant hazards. To ensure maximum quality, stability, and long-term performance, proper storage practices are recommended.

For best results:

- Store in a tightly sealed container to protect against moisture absorption.
- Keep in a dry, cool, and well-ventilated environment.
- Avoid direct exposure to sunlight or intense artificial light to preserve material integrity.

By following these guidelines, ReForm rPP GF30 UV will maintain its reliability and print performance over time.

Product export information

HS code: 39021000

Description: Polypropylene (PP) resin in primary form

Origin: European Union

Disclaimer

The product and technical data provided in this datasheet are, to the best of FormFutura B.V.'s knowledge, accurate at the time of publication and are intended solely for reference and comparative purposes. Actual results may vary depending on printing conditions, model design, environmental factors, and other variables. The values presented are typical, non-binding, and should not be interpreted as guaranteed specifications.

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