

### Product Description

Polypropylene-Glass Fibber Reinforcement, 30%

### Product Application

Glass-reinforced PP compounds are widely used in the engine and transmission applications such as automotive air filter housing and General.

The parts that use glass-reinforced, talc, PP compounds required UV stabilizers, heat stabilizers, high strength and stiffness.

### General

Material Status	Commercial: Active
Filler/Reinforcement	Glass Fibber reinforcement, 30%
Forms	Pellets
Additive	Mold Release
Feature	High Heat Resistance, High Stiffness
Appearance/Colour	Natural
Processing Method	Injection molding

Physical & Rheological Properties	Specification	Unit	Test Method
Melt Flow Index	8-10	G/10min	ASTM-D1238
Density	1.11-1.15	G/cc	ASTM-D792
Shrinkage	0.5-0.7	%	ASTM-D955
Filler Content	28-32	%	ASTM-D5630

Mechanical Properties	Specification	Unit	Test Method
Tensile Strength @ Yield	950-1050	Kg/cm <sup>2</sup>	ASTM-D638
Elongation @ Break	6-10	%	ASTM-D638
Flexural Strength	1200-1400	Kg/cm <sup>2</sup>	ASTM-D790
Flexural Modulus	5500-6500	Mpa	ASTM-D790
Notch Izod Impact Strength	8-12	Kg cm/cm	ASTM -D256

Thermal	Specification	Unit	Test Method
Heat Deflection Temperature 0.455Mpa Unannealed	150-160	°C	ASTM-D648

**Drying Conditions**

General Processing Condition –Injection moulding dry Material PP GF moisture during temperature should not be more than 70 to 80°C one to two hours for material exposed to the atmosphere. Moisture content after drying should be <0.02% avoid sudden cooling of dry pellet.

**Injection molding Temperature(°C)**

Feed zone	Transition zone	Metering zone	Nozzle	Mold
180°C - 190°C	190°C - 200°C	200°C - 210°C	210°C - 220°C	50°C - 60°C

**Physical form and Packaging/Storage**

ENRICH POLYMERS PP is supplied in pellet form. It should be as per guideline mentioned above prior to molding. Standard packing size is 25kg. In order to prevent moisture pick up and contamination supplied packaging should be kept closed and undamaged.

**Material Safety**

ENRICH POLYMERS GF is thermally stable up to 140°C and does not give rise to hazardous material due to degradation or evolution of gases and vapors. ENRICH POLYMERS PP decomposes above 300°C and gives unsaturated hydrocarbons and small quantity of aldehydes.

For more information on safety, refer individual material MSDS. Available on request.

**Note**

All information supplied in this publication is based on our current knowledge and experience. The data provided fall within the normal range of material properties and relate only to the specific material designed. The data provided should not be used to establish specification limits or used alone as the basis of design. ENRICH POLYMERS assumes no liability and makes no warranties of any kind expressed or implied, whatsoever in respect of application, processing or use made of aforementioned information or material.