

PLASTRON® LFT

Long Fiber Reinforced Thermoplastics

General Properties

PP-GF20-01

COLOR No. F02, 018

Long glass fiber reinforced PP resin (GF20%)

Item	Unit	Test method	PP-GF20-01
Density	g/cm ³	ISO 1183	1.03
Tensile strength	MPa	ISO 527 -1,2	90
Flexural strength	MPa	ISO 178	130
Flexural modulus	MPa	ISO 178	4,400
Charpy notched impact strength (23°C)	kJ/m ²	ISO 179/1eA	20
Charpy notched impact strength (-40°C)	kJ/m ²	ISO 179/1eA	25
Temperature of deflection under load (1.8MPa)	°C	ISO 75 -1,2	157

Standard molding conditions

Preliminary drying	Cylinder temperature (°C)				Screw rotational speed (rpm)	Back pressure (MPa)	Mold temperature (°C)
	Nozzle	Front section	Center section	Rear section			
1-2hrs 80°C	200-250	200-250	190-240	180-230	40-60	1-5	40-80

【Alert Notes】

- Cool the purged plastics lumps down in water bath, they may possibly ignite due to their high temperature.
- Preliminary drying under the conditions above is required, although PP resin hardly absorbs moisture.

NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under conditions prescribed by applicable standards and test methods.
- This brochure has been prepared based on our own experiences and laboratory test data, and therefore all data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application.
- It is the users' responsibility to investigate patent rights, service life and potentiality of applications introduced in this brochure.
Materials we supply are not intended for the implant applications in the medical and dental fields, and therefore are not recommended for such uses.
- For all works done properly, it is advised to refer to appropriate technical catalogs for specific material processing.
- For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet "**SDS**" of the proper material.
- This brochure is edited based on reference literature, information and data available to us at the time of creation. The contents of this brochure are subject to change without notice upon achievement of new data.
- Please contact our office for any questions about products we supply, descriptive literatures or any description in this brochure.

*PLASTRON® is a registered trademark of Polyplastics Co., Ltd. in Japan and other countries.

POLYPLASTICS CO., LTD.

JR Shinagawa East Bldg.,
18-1, Konan 2-chome, Minato-ku, Tokyo, 108-8280 Japan
Tel: +81-3-6711-8610 Fax: +81-3-6711-8618

<https://www.polyplastics-global.com>