

PLASTRON® LFT

Long Fiber Reinforced Thermoplastics

General Properties

PA9T-GF50-01 (L9)

COLOR No. F02

Long glass fiber reinforced aromatic PA resin (GF50%)

| Item | Unit | Test method | PA9T-GF50-01 | |
|---|-------------------|--------------|--------------|------------|
| | | | Dry | 0.5% moist |
| Density | g/cm ³ | ISO 1183 | 1.58 | — |
| Tensile strength | MPa | ISO 527 -1,2 | 245 | 220 |
| Flexural strength | MPa | ISO 178 | 370 | 330 |
| Flexural modulus | MPa | ISO 178 | 16,000 | 15,500 |
| Charpy notched impact strength (23°C) | kJ/m ² | ISO 179/1eA | 40 | 32 |
| Charpy notched impact strength (-40°C) | kJ/m ² | ISO 179/1eA | 40 | — |
| Temperature of deflection under load (1.8MPa) | °C | ISO 75 -1,2 | 295 | — |

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 | | | |
| 5-24hrs 120-140°C | 310-340 | 310-340 | 300-330 | 290-320 | 40-60 | 1-5 | 140-160 |

【Alert Notes】

- Cool the purged plastics lumps down in water bath, they may possibly ignite due to their high temperature.

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.

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