

**GF-PET ( Glassfiber Reinforced Polyethylene Terephthalate )**

**FR-PET®**

CN9015

Flame Retardant,  
Standard

**POLYPLASTICS CO., LTD.**

# General Properties of CN9015

table1-1 General Properties (ISO)

| Item                                                                               | Unit                  | Test Method             | Flame Retardant,<br>Standard                     |
|------------------------------------------------------------------------------------|-----------------------|-------------------------|--------------------------------------------------|
|                                                                                    |                       |                         | CN9015                                           |
|                                                                                    |                       |                         | GF reinforced,<br>Moldable at low<br>temperature |
| Color                                                                              |                       |                         | -                                                |
| ISO(JIS)quality-of-the-material display:                                           |                       | ISO11469<br>(JIS K6999) | >PET-GF15 FR(17)<                                |
| Density                                                                            | g/cm <sup>3</sup>     | ISO 1183                | 1.58                                             |
| Water absorption (23°C,24hrs,1mmt)                                                 | %                     | ISO 62                  | 0.2                                              |
| Tensile strength                                                                   | MPa                   | ISO 527-1,2             | 105                                              |
| Strain at break                                                                    | %                     | ISO 527-1,2             | 2.2                                              |
| Flexural strength                                                                  | MPa                   | ISO 178                 | 163                                              |
| Flexural modulus                                                                   | MPa                   | ISO 178                 | 6,400                                            |
| Charpy notched impact strength (23°C)                                              | kJ/m <sup>2</sup>     | ISO 179/1eA             | 6.1                                              |
| Temperature of deflection under load (1.8MPa)                                      | °C                    | ISO 75-1,2              | 224                                              |
| Coefficient of linear thermal expansion (Normal temperature, Flow direction)       | x10 <sup>-5</sup> /°C | Our standard            | -                                                |
| Coefficient of linear thermal expansion (Normal temperature, Transverse direction) | x10 <sup>-5</sup> /°C | Our standard            | -                                                |
| Electric strength (3mmt)                                                           | kV/mm                 | IEC 60243-1             | 22                                               |
| Volume resistivity                                                                 | Ω·cm                  | IEC 60093               | 1 × 10 <sup>16</sup>                             |
| Tracking resistance (CTI)                                                          | V                     | IEC 60112               | 250                                              |
| Flammability                                                                       |                       | UL94                    | V-0                                              |
| The yellow card File No.                                                           |                       |                         | E213445                                          |
| Appropriate List number of Ministerial Ordinance for Export Trade Control          |                       |                         | Item 16 of Appendix -1                           |

All figures in the table are the typical values of the material and not the minimum values of the material specifications.



## NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under varying 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.
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- For safe handling of materials we supply, it is advised to refer to the 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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