

## PRODUCT DATA SHEET

# EPG-1020

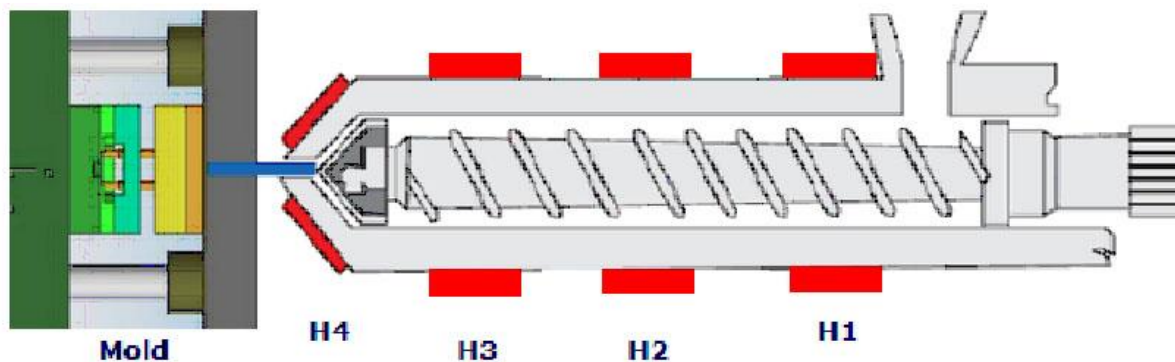
■ Description : Non-halogen Flame retardant PC+GF20%

■ Application : Electrical and Electronics Housing

| General properties                             | Typical value | Unit                | Test method    |
|------------------------------------------------|---------------|---------------------|----------------|
| Specific Gravity                               | 1.34          | g/cm <sup>3</sup>   | ISO 1183       |
| Melt flow rate ,@300°C, 1.2 kgf                | 8             | g/10min             | ISO 1133       |
| Mold Shrinkage                                 | 0.3 ~ 0.6     | %<br>( 3~6/1,000 )  | Polylex method |
| <b>Mechanical properties</b>                   |               |                     |                |
| Izod impact strength, 4 mm notched<br>@+23°C   | 9             | KJ / m <sup>2</sup> | ISO 180        |
| Tensile stress, @ yield, 50 mm/min             | 98            | MPa                 | ISO 527-1.-2   |
| Tensile strain, @ break, 50 mm/min             | 1             | %                   | ISO 527-1.-2   |
| Flexural Strength, @ 2mm/min                   | 150           | MPa                 | ISO 178        |
| Flexural Modulus, @ 2mm/min                    | 4,800         | MPa                 | ISO 178        |
| <b>Thermal properties</b>                      |               |                     |                |
| Heat Deflection Temperature<br>@ 1.86 MPa, 4mm | 143           | °C                  | ISO 75-2       |
| <b>Flammability</b>                            |               |                     |                |
| UL-94 method                                   | 1.6           | mm                  | V-0            |

\* The above values are for the representatives

# PROCESSING GUIDE of EPG-1020



| Parameter Injection Molding |    | Value | Unit      |
|-----------------------------|----|-------|-----------|
| Drying Temperature          |    | °C    | 100~ 120  |
| Drying Time                 |    | HR    | 3 ~ 4     |
| Maximum moisture content    |    | %     | 0.02      |
| Melt Temperature            |    | °C    | 290 ~ 320 |
| Cylinder Temperature        | H4 | °C    | 310 ~ 320 |
|                             | H3 | °C    | 300 ~ 310 |
|                             | H2 | °C    | 290 ~ 300 |
|                             | H1 | °C    | 280 ~ 300 |
| Mold Temperature            |    | °C    | 80 ~ 110  |
| Back Pressure               |    | MPa   | 0.3 ~ 0.7 |
| Screw rotating speed        |    | rpm   | 20 ~ 100  |