

# LOTTE CHEMICAL

## ECF-9202

Polycarbonate compound resin

### General information

#### Description

C/F 10%

Electrical conductivity

#### Applications

Multi purpose grade

### Typical properties<sup>1</sup>

|                                           | Test method                           | Typical value                    | Unit                             |
|-------------------------------------------|---------------------------------------|----------------------------------|----------------------------------|
| <b>Physical</b>                           |                                       |                                  |                                  |
| Melt Flow Index, 300°C, 1.2 kg            | ASTM D1238                            | -                                | g/10 min                         |
| Specific Gravity                          | ASTM D792                             | 1.28                             |                                  |
| Mold Shrinkage                            | ASTM D955                             | 0.1~0.3                          | %                                |
| <b>Mechanical</b>                         |                                       |                                  |                                  |
| Tensile Strength, yield, 50 mm/min        | ASTM D638                             | 1,700                            | kg <sub>f</sub> /cm <sup>2</sup> |
| Tensile Elongation, break, 50 mm/min      | ASTM D638                             | -                                | %                                |
| Flexural Strength, yield, 10 mm/min       | ASTM D790                             | 2,100                            | kg <sub>f</sub> /cm <sup>2</sup> |
| Flexural Modulus, 10 mm/min               | ASTM D790                             | 100,500                          | kg <sub>f</sub> /cm <sup>2</sup> |
| IZOD Impact Strength, notched, 23°C, 1/8" | ASTM D256                             | 14                               | kg <sub>f</sub> ·cm/cm           |
|                                           | ASTM D256                             | -                                | kg <sub>f</sub> ·cm/cm           |
|                                           | ASTM D256                             | -                                | kg <sub>f</sub> ·cm/cm           |
| <b>Thermal</b>                            |                                       |                                  |                                  |
| Heat Distortion Temp.                     | 4.6 kg <sub>f</sub> /cm <sup>2</sup>  | ASTM D648                        | - °C                             |
|                                           | 18.6 kg <sub>f</sub> /cm <sup>2</sup> | ASTM D648                        | 143 °C                           |
| Vicat Softening Temp.                     | Rate B/50                             | ASTM D1525                       | - °C                             |
| <b>Electrical</b>                         |                                       |                                  |                                  |
| Surface Resistivity                       | ASTM D257                             | 10 <sup>1</sup> ~10 <sup>3</sup> | ohms/sq.                         |
| <b>Flammability</b>                       |                                       |                                  |                                  |
| UL94 V-0                                  | UL94                                  | -                                | mm                               |

### Notes

ISO 9001, 14001, TS 16949

<sup>1</sup> Typical properties : these are not to be construed as specifications.

# LOTTE CHEMICAL

## ECF-9102

Polycarbonate compound resin

### Processing guides<sup>1</sup>

|                          | Typical value | Unit      |
|--------------------------|---------------|-----------|
| <b>Drying condition</b>  |               |           |
| Drying temperature       | 120           | °C        |
| Drying time              | 4             | hr        |
| Maximum moisture content | 0.02          | %         |
| <b>Injection molding</b> |               |           |
| Melt temperature         | 300 ~ 320     | °C        |
| Nozzle temperature       | 290 ~ 310     | °C        |
| Barrel                   | Rear zone     | 300 ~ 320 |
|                          | Middle zone   | 290 ~ 310 |
|                          | Front zone    | 280 ~ 300 |
| Hopper temperature       | 60 ~ 80       | °C        |
| Mold temperature         | 80 ~ 110      | °C        |



### Recycling

Sprues and runners can be reground with virgin resin within the ratio of 20%. Care must be taken to ensure that the regrind is free from impurities and regrind should not be used in applications where impact performance and/or agency compliance are required.

### Notes

ISO 9001, 14001, TS 16949

<sup>1</sup> Processing guides : Typical processing parameters are noted. Actual processing conditions will depend on machine size, mold design, material residence time, shot size, etc.

[www.lottechem.com](http://www.lottechem.com)