

## Product Information

### Standard Grade

## KOPPS<sup>®</sup> Series

KOPPS<sup>®</sup> Series is one kind of SUPER Engineering Plastics beyond the performance of Engineering Plastics. It is mainly used for precision parts that require the high dimension stability. The property of low absorption of the product whose value is close to '0' makes the high quality of the dimension stability after injection with the excellent melt viscosity. Also, its special property of the high and consecutive using temperature and self-extinguishing character extends the range of the usage for the part of the car, electric and electronic industry that require the high heat resistance and the flame resistance.

## KOPPS<sup>®</sup> S21A65BL

| Properties | Test Method | 단위 | 대표치 |
|------------|-------------|----|-----|
|------------|-------------|----|-----|

### Physical

|                  |                              |          |   |           |
|------------------|------------------------------|----------|---|-----------|
| Specific Gravity |                              | ISO 1183 | - | 1.95      |
| Filler Contents  |                              | ISO 1172 | % | 65        |
| Shrinkage        |                              | ISO 294  | % | 0.23/1.00 |
| Water Absorption | 23°C, H <sub>2</sub> O, 24hr | ISO 62   | % | 0.02      |

### Mechanical

|                                |      |             |                   |        |
|--------------------------------|------|-------------|-------------------|--------|
| Tensile Strength               | 23°C | ISO 527     | MPa               | 125    |
| Tensile Elongation             | 23°C | ISO 527     | %                 | 1.0    |
| Flexural Strength              | 23°C | ISO 178     | MPa               | 195    |
| Flexural Modulus               | 23°C | ISO 178     | MPa               | 16,000 |
| Notched Charpy Impact Strength | 23°C | ISO 179/1eA | kJ/m <sup>2</sup> | 7.0    |
| Rockwell Hardness              |      | ISO 2039-1  | R scale           | 120    |

### Thermal

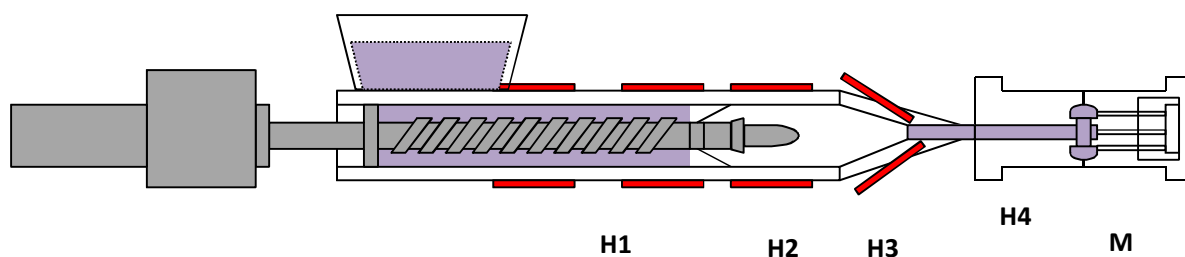
|                             |         |             |    |     |
|-----------------------------|---------|-------------|----|-----|
| Melting Point               |         | ISO 11357-1 | °C | 285 |
| Heat Deflection Temperature |         | ISO 75      |    | 265 |
|                             | 1.8 MPa |             | °C |     |
| Flammability(0.8mm)         |         | UL94        |    | V-0 |



## Electrical

|                                 |           |        |                  |
|---------------------------------|-----------|--------|------------------|
| Comparative Tracking Index(CTI) | IEC 60112 | Volts  | 230              |
| Volume Resistivity              | IEC 60093 | Ohm·cm | 10 <sup>16</sup> |
| Surface Resistivity             | IEC 60093 | Ohm    | —                |

## Processing Guide (Injection Molding)



|                                 | H1                                   | H2      | H3      | H4      |
|---------------------------------|--------------------------------------|---------|---------|---------|
| Cylinder Temperature(°C)        | 230~250                              | 290~310 | 290~310 | 300~320 |
| Mold Temperature(°C)            | 120~140                              |         |         |         |
| Processing Moisture Contents(%) | ≤0.05                                |         |         |         |
| Pre-drying                      | Dehumidified Dryer, 120~130°C, 3~5hr |         |         |         |

