

**SUMIKASUPER® E6808LHF Z**

LCP-(GF+MX)40

Sumitomo Chemical Co., Ltd.

| Processing/Physical Characteristics | Value  | Unit  | Test Standard |
|-------------------------------------|--------|-------|---------------|
| <b>ASTM Data</b>                    |        |       |               |
| Mold Shrinkage, MD                  | 0.0023 | mm/mm | ASTM D 955    |
| Mold Shrinkage, TD                  | 0.0063 | mm/mm | ASTM D 955    |

| Mechanical properties         | Value | Unit              | Test Standard |
|-------------------------------|-------|-------------------|---------------|
| <b>ISO Data</b>               |       |                   |               |
| Tensile Modulus               | 11600 | MPa               | ISO 527       |
| Tensile Strength              | 118   | MPa               | ISO 527       |
| Flexural modulus, 23°C        | 10100 | MPa               | ISO 178       |
| Charpy impact strength, +23°C | 31    | kJ/m <sup>2</sup> | ISO 179/1eU   |
| <b>ASTM Data</b>              |       |                   |               |
| Tensile Strength              | 127   | MPa               | ASTM D 638    |
| Flexural Modulus              | 11800 | MPa               | ASTM D 790    |
| Flexural Strength             | 146   | MPa               | ASTM D 790    |
| Izod Impact unnotched, 1/8 in | 302   | J/m               | ASTM D 256    |

| Thermal properties                       | Value | Unit | Test Standard |
|--|-------|------|---------------|
| <b>ISO Data</b>                          |       |      |               |
| Temp. of deflection under load, 1.80 MPa | 276   | °C   | ISO 75-1/-2   |
| <b>ASTM Data</b>                         |       |      |               |
| UL 94 Flame rating                       | V-0   | -    | UL 94         |
| Thickness tested                         | 0.3   | mm   | -             |
| DTUL @ 264 psi                           | 274   | °C   | ASTM D 648    |

| Electrical properties      | Value | Unit   | Test Standard |
|----------------------------|-------|--------|---------------|
| <b>ASTM Data</b>           |       |        |               |
| Dissipation Factor, 1 MHz  | 0.038 | -      | ASTM D 150    |
| Dielectric Constant, 1 MHz | 3.8   | -      | ASTM D 150    |
| Surface Resistivity        | >1E15 | Ohm    | ASTM D 257    |
| Volume Resistivity         | 1E15  | Ohm*cm | ASTM D 257    |
| Arc Resistance             | 140   | s      | ASTM D 495    |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 1710  | kg/m <sup>3</sup> | ASTM D 792    |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature                    | 130       | °C   | -             |
| Pre-drying - Time                           | 4 - 24    | h    | -             |
| Melt temperature                            | 350       | °C   | -             |
| Mold temperature                            | 40 - 160  | °C   | -             |
| Zone 1                                      | 280 - 320 | °C   | -             |
| Zone 2                                      | 320 - 340 | °C   | -             |
| Zone 3                                      | 340 - 360 | °C   | -             |
| Nozzle temperature                          | 340 - 360 | °C   | -             |
| Screw speed                                 | 50 - 100  | rpm  | -             |
| Injection pressure                          | 80 - 160  | MPa  | -             |
| Back pressure                               | 1 - 5     | MPa  | -             |
| Holding pressure                            | 20 - 40   | MPa  | -             |

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Delivery form**

Black, Natural Color