

# Lion Idemitsu Composites PPS C-200SC

Polyphenylene Sulfide

Lion Idemitsu Composites Co., Ltd.

## Message:

Lion Idemitsu Composites PPS C-200SC is a Polyphenylene Sulfide (PPS) product filled with 65% glass\mineral. It is available in Asia Pacific.

Characteristics include:

Flame Rated

High Flow

| General Information                               |                                    |                   |             |
|---------------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                            | Glass\Mineral,65% Filler by Weight |                   |             |
| Features                                          | High Flow                          |                   |             |
| Appearance                                        | Black                              |                   |             |
| Part Marking Code (ISO 11469)                     | >PPS-(GF+KD)65<                    |                   |             |
| Physical                                          | Nominal Value                      | Unit              | Test Method |
| Density                                           | 1.95                               | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage <sup>1</sup>                    |                                    |                   | ISO 294-4   |
| Across Flow                                       | 0.60                               | %                 |             |
| Flow                                              | 0.30                               | %                 |             |
| Water Absorption (23°C, 24 hr)                    | > 0.020                            | %                 | ISO 62      |
| Hardness                                          | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness (M-Scale)                       | 101                                |                   | ISO 2039-2  |
| Mechanical                                        | Nominal Value                      | Unit              | Test Method |
| Tensile Stress                                    | 135                                | MPa               | ISO 527-2   |
| Tensile Strain (Break)                            | 1.1                                | %                 | ISO 527-2   |
| Flexural Modulus                                  | 19500                              | MPa               | ISO 178     |
| Flexural Stress                                   | 212                                | MPa               | ISO 178     |
| Impact                                            | Nominal Value                      | Unit              | Test Method |
| Charpy Unnotched Impact Strength                  | 8.3                                | kJ/m <sup>2</sup> | ISO 179     |
| Thermal                                           | Nominal Value                      | Unit              | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 274                                | °C                | ISO 75-2/A  |
| CLTE                                              |                                    |                   | ISO 11359-2 |
| Flow                                              | 1.9E-5                             | cm/cm/°C          |             |
| Transverse                                        | 2.3E-5                             | cm/cm/°C          |             |
| Electrical                                        | Nominal Value                      | Unit              | Test Method |
| Volume Resistivity                                | 1.0E+16                            | ohms·cm           | ASTM D257   |
| Electric Strength (3.00 mm)                       | 14                                 | kV/mm             | IEC 60243-1 |
| Dielectric Constant                               | 4.70                               |                   | IEC 60250   |
| Flammability                                      | Nominal Value                      | Unit              | Test Method |
| Flame Rating (0.750 mm)                           | V-0                                |                   | UL 94       |

| Additional Information             | Nominal Value                                                                                         | Unit | Test Method     |
|------------------------------------|-------------------------------------------------------------------------------------------------------|------|-----------------|
| Flowability <sup>2</sup> (1.00 mm) | 125                                                                                                   | mm   | Internal Method |
| NOTE                               |                                                                                                       |      |                 |
| 1.                                 | Internal Method                                                                                       |      |                 |
|                                    | Thickness 1mm, Cylinder<br>temperature 320°C, Injection<br>pressure 100MPa, Mold<br>temperature 135°C |      |                 |
| 2.                                 |                                                                                                       |      |                 |

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