

# Cevian®-V SKG20

Acrylonitrile Butadiene Styrene

Daicel Polymer Ltd.

## Message:

Cevian®-V SKG20 is an Acrylonitrile Butadiene Styrene (ABS) material filled with 20% glass fiber. It is available in Asia Pacific. Primary attribute of Cevian®-V SKG20: Flame Rated.

| General Information                   |                                  |               |             |
|---------------------------------------|----------------------------------|---------------|-------------|
| UL YellowCard                         | E47773-239522                    | E47773-239524 |             |
| Filler / Reinforcement                | Glass Fiber,20% Filler by Weight |               |             |
| Physical                              | Nominal Value                    | Unit          | Test Method |
| Density                               | 1.33                             | g/cm³         | ISO 1183    |
| Molding Shrinkage - Flow              | 0.20 to 0.50                     | %             | ASTM D955   |
| Water Absorption (23°C, 24 hr)        | 0.30                             | %             | ISO 62      |
| Mechanical                            | Nominal Value                    | Unit          | Test Method |
| Tensile Stress (Yield)                | 90.0                             | MPa           | ISO 527-2   |
| Flexural Modulus                      | 7100                             | MPa           | ISO 178     |
| Flexural Stress                       | 140                              | MPa           | ISO 178     |
| Impact                                | Nominal Value                    | Unit          | Test Method |
| Charpy Notched Impact Strength (23°C) | 6.0                              | kJ/m²         | ISO 179/1eA |
| Notched Izod Impact (23°C, 6.40 mm)   | 60                               | J/m           | ASTM D256   |
| Thermal                               | Nominal Value                    | Unit          | Test Method |
| Deflection Temperature Under Load     |                                  |               |             |
| 1.8 MPa, Unannealed, 12.7 mm          | 105                              | °C            | ASTM D648   |
| 1.8 MPa, Unannealed                   | 97.0                             | °C            | ISO 75-2/A  |
| Vicat Softening Temperature           | 101                              | °C            | ISO 306/B50 |
| CLTE                                  |                                  |               | ISO 11359-2 |
| Flow                                  | 3.0E-5                           | cm/cm/°C      |             |
| Transverse                            | 8.0E-5                           | cm/cm/°C      |             |
| Ball Pressure Test                    | 95                               | °C            |             |
| Electrical                            | Nominal Value                    | Unit          | Test Method |
| Dielectric Strength (1.50 mm)         | 22                               | kV/mm         | ASTM D149   |
| Arc Resistance (3.00 mm)              | PLC 7                            |               | ASTM D495   |
| Flammability                          | Nominal Value                    | Unit          | Test Method |
| Flame Rating                          |                                  |               | UL 94       |
| 1.50 mm                               | V-0                              |               |             |
| 2.50 mm                               | 5VA                              |               |             |
| Injection                             | Nominal Value                    | Unit          |             |
| Drying Temperature                    | 80.0 to 85.0                     | °C            |             |
| Drying Time                           | 3.0 to 4.0                       | hr            |             |

|                    |              |     |
|--------------------|--------------|-----|
| Rear Temperature   | 180 to 200   | °C  |
| Middle Temperature | 200 to 220   | °C  |
| Front Temperature  | 220 to 240   | °C  |
| Nozzle Temperature | 220 to 240   | °C  |
| Mold Temperature   | 60.0 to 80.0 | °C  |
| Back Pressure      | 10.0 to 20.0 | MPa |
| Screw Speed        | 40 to 60     | rpm |

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