

# Sindustris PP GP1008F

Polypropylene

Sincerity Australia Pty Ltd.

Message:

Sindustris PP GP1008F is a Polypropylene material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PP GP1008F are:

Flame Rated

Flame Retardant

Typical applications include:

Automotive

Electrical/Electronic Applications

| General Information                                              |                                    |                   |             |
|------------------------------------------------------------------|------------------------------------|-------------------|-------------|
| Additive                                                         | Flame Retardant                    |                   |             |
| Features                                                         | Flame Retardant                    |                   |             |
|                                                                  | General Purpose                    |                   |             |
| Uses                                                             | Automotive Applications            |                   |             |
|                                                                  | Electrical/Electronic Applications |                   |             |
| UL File Number                                                   | E306922                            |                   |             |
| Processing Method                                                | Injection Molding                  |                   |             |
| Physical                                                         | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                                                 | 0.940                              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                        | 11                                 | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)                               | 1.6 to 1.8                         | %                 | ASTM D955   |
| Mechanical                                                       | Nominal Value                      | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)                   | 32.4                               | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)                 | 70                                 | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (6.40 mm)                          | 1770                               | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (6.40 mm)                         | 38.2                               | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C, 6.40 mm)                              | 78                                 | J/m               | ASTM D256   |
| Thermal                                                          | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 120                                | °C                | ASTM D648   |
| RTI Elec                                                         | 120                                | °C                | UL 746      |
| RTI Imp                                                          | 120                                | °C                | UL 746      |
| RTI Str                                                          | 120                                | °C                | UL 746      |
| Flammability                                                     | Nominal Value                      | Test Method       |             |
| Flame Rating (0.750 mm)                                          | V-0                                | UL 94             |             |
| Injection                                                        | Nominal Value                      | Unit              |             |

|                        |              |     |
|------------------------|--------------|-----|
| Drying Temperature     | 70.0 to 80.0 | °C  |
| Drying Time            | 3.0 to 4.0   | hr  |
| Suggested Max Moisture | 0.010        | %   |
| Rear Temperature       | 190 to 210   | °C  |
| Middle Temperature     | 200 to 230   | °C  |
| Front Temperature      | 200 to 230   | °C  |
| Nozzle Temperature     | 210 to 230   | °C  |
| Processing (Melt) Temp | 200 to 230   | °C  |
| Mold Temperature       | 40.0 to 60.0 | °C  |
| Back Pressure          | 29.4 to 58.8 | MPa |
| Screw Speed            | 30 to 60     | rpm |

#### NOTE

- |    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

