

# Sindustris PP GP2101

Polypropylene  
Sincerity Australia Pty Ltd.

Message:

Sindustris PP GP2101 is a Polypropylene material filled with 10% glass fiber. It is available in Asia Pacific for injection molding.  
Typical applications include:  
Automotive  
Electrical/Electronic Applications

| General Information  |                                    |          |             |
|--|------------------------------------|----------|-------------|
| Filler / Reinforcement   | Glass Fiber,10% Filler by Weight   |          |             |
| Features   | General Purpose                    |          |             |
| Uses   | Automotive Applications            |          |             |
|  | Electrical/Electronic Applications |          |             |
| UL File Number   | E306922                            |          |             |
| Processing Method  | Injection Molding                  |          |             |
| Physical   | Nominal Value                      | Unit     | Test Method |
| Specific Gravity   | 0.990                              | g/cm³    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                        | 15                                 | g/10 min | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)                               | 0.40 to 0.60                       | %        | ASTM D955   |
| Mechanical   | Nominal Value                      | Unit     | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)                   | 49.0                               | MPa      | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)                 | < 10                               | %        | ASTM D638   |
| Flexural Modulus <sup>3</sup> (6.40 mm)                          | 1960                               | MPa      | ASTM D790   |
| Flexural Strength <sup>4</sup> (6.40 mm)                         | 68.6                               | MPa      | ASTM D790   |
| Impact   | Nominal Value                      | Unit     | Test Method |
| Notched Izod Impact (23°C, 6.40 mm)                              | 49                                 | J/m      | ASTM D256   |
| Thermal  | Nominal Value                      | Unit     | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm) | 140                                | °C       | ASTM D648   |
| 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.            | 5.0 mm/min   |     |
| 2.            | 5.0 mm/min   |     |
| 3.            | 1.3 mm/min   |     |
| 4.            | 1.3 mm/min   |     |

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