

# Sindustris PC GP1001MU

Polycarbonate  
Sincerity Australia Pty Ltd.

Message:

Sindustris PC GP1001MU is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.  
Important attributes of Sindustris PC GP1001MU are:  
Flame Rated  
Clarity  
Good UV Resistance  
UV Stabilized  
Typical applications include:  
Automotive  
Electrical/Electronic Applications  
Housings

| General Information                              |                                    |                   |             |
|--------------------------------------------------|------------------------------------|-------------------|-------------|
| Additive                                         | UV Stabilizer                      |                   |             |
| Features                                         | General Purpose                    |                   |             |
|                                                  | Good UV Resistance                 |                   |             |
|                                                  | High Clarity                       |                   |             |
| Uses                                             | Automotive Exterior Parts          |                   |             |
|                                                  | Automotive Interior Parts          |                   |             |
|                                                  | Electrical/Electronic Applications |                   |             |
|                                                  | Housings                           |                   |             |
| UL File Number                                   | E306922                            |                   |             |
| Appearance                                       | Clear/Transparent                  |                   |             |
| Processing Method                                | Injection Molding                  |                   |             |
| Physical                                         | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                                 | 1.20                               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)         | 11                                 | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)               | 0.50 to 0.80                       | %                 | ASTM D955   |
| Hardness                                         | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                      | 118                                |                   | ASTM D785   |
| Mechanical                                       | Nominal Value                      | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)   | 61.8                               | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | > 150                              | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.20 mm)          | 2260                               | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)         | 98.1                               | MPa               | ASTM D790   |
| Impact                                           | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm)              | 740                                | J/m               | ASTM D256   |
| Thermal                                          | Nominal Value                      | Unit              | Test Method |

| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 130                               | °C      | ASTM D648               |
|------------------------------------------------------------------|-----------------------------------|---------|-------------------------|
| Vicat Softening Temperature                                      | 141                               | °C      | ASTM D1525 <sup>5</sup> |
| RTI Elec                                                         | 130                               | °C      | UL 746                  |
| RTI Imp                                                          | 130                               | °C      | UL 746                  |
| RTI Str                                                          | 130                               | °C      | UL 746                  |
| Electrical                                                       | Nominal Value                     | Unit    | Test Method             |
| Volume Resistivity (23°C)                                        | 2.0E+15                           | ohms·cm | ASTM D257               |
| Comparative Tracking Index                                       | 250                               | V       | IEC 60112               |
| Flammability                                                     | Nominal Value                     | Unit    | Test Method             |
| Flame Rating                                                     |                                   |         | UL 94                   |
| 1.50 mm                                                          | HB                                |         |                         |
| 3.20 mm                                                          | HB                                |         |                         |
| Injection                                                        | Nominal Value                     | Unit    |                         |
| Drying Temperature                                               | 100 to 120                        | °C      |                         |
| Drying Time                                                      | 3.0 to 5.0                        | hr      |                         |
| Suggested Max Moisture                                           | 0.020                             | %       |                         |
| Rear Temperature                                                 | 260 to 280                        | °C      |                         |
| Middle Temperature                                               | 280 to 300                        | °C      |                         |
| Front Temperature                                                | 300 to 320                        | °C      |                         |
| Nozzle Temperature                                               | 300 to 320                        | °C      |                         |
| Processing (Melt) Temp                                           | 300 to 320                        | °C      |                         |
| Mold Temperature                                                 | 80.0 to 120                       | °C      |                         |
| Back Pressure                                                    | 0.981 to 3.92                     | MPa     |                         |
| Screw Speed                                                      | 40 to 70                          | rpm     |                         |
| NOTE                                                             |                                   |         |                         |
| 1.                                                               | 50 mm/min                         |         |                         |
| 2.                                                               | 50 mm/min                         |         |                         |
| 3.                                                               | 10 mm/min                         |         |                         |
| 4.                                                               | 10 mm/min                         |         |                         |
| 5.                                                               | Rate A (50°C/h), Loading 2 (50 N) |         |                         |

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