

# Sindustris PC GP5007B

Polycarbonate  
Sincerity Australia Pty Ltd.

Message:

Sindustris PC GP5007B is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding. Primary attribute of Sindustris PC GP5007B: High Flow.

| General Information                                              |                   |                   |             |
|------------------------------------------------------------------|-------------------|-------------------|-------------|
| Features                                                         | General Purpose   |                   |             |
|                                                                  | High Flow         |                   |             |
| UL File Number                                                   | E306922           |                   |             |
| Processing Method                                                | Injection Molding |                   |             |
| Physical                                                         | Nominal Value     | Unit              | Test Method |
| Specific Gravity                                                 | 1.14              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)                        | 6.0               | 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)                                      | 114               |                   | ASTM D785   |
| Mechanical                                                       | Nominal Value     | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)                   | 55.9              | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)                 | > 100             | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.20 mm)                          | 2260              | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)                         | 90.2              | MPa               | ASTM D790   |
| Impact                                                           | Nominal Value     | Unit              | Test Method |
| Notched Izod Impact                                              |                   |                   | ASTM D256   |
| -30°C, 3.20 mm                                                   | 290               | J/m               |             |
| 23°C, 3.20 mm                                                    | 570               | J/m               |             |
| Thermal                                                          | Nominal Value     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm) | 114               | °C                | ASTM D648   |
| Injection                                                        | Nominal Value     | Unit              |             |
| Drying Temperature                                               | 80.0 to 100       | °C                |             |
| Drying Time                                                      | 4.0 to 6.0        | hr                |             |
| Suggested Max Moisture                                           | 0.020             | %                 |             |
| Rear Temperature                                                 | 240 to 270        | °C                |             |
| Middle Temperature                                               | 245 to 275        | °C                |             |
| Front Temperature                                                | 245 to 275        | °C                |             |
| Nozzle Temperature                                               | 245 to 275        | °C                |             |
| Processing (Melt) Temp                                           | 240 to 270        | °C                |             |

|                  |              |    |
|------------------|--------------|----|
| Mold Temperature | 50.0 to 70.0 | °C |
| NOTE             |              |    |
| 1.               | 50 mm/min    |    |
| 2.               | 50 mm/min    |    |
| 3.               | 10 mm/min    |    |
| 4.               | 10 mm/min    |    |

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