

# Sindustris PBT TE5001SP

Polycarbonate + PBT  
Sincerity Australia Pty Ltd.

Message:

Sindustris PBT TE5001SP is a Polycarbonate + PBT (PC+PBT) material. It is available in Asia Pacific for injection molding.  
Important attributes of Sindustris PBT TE5001SP are:  
Good Weather Resistance  
Low Gloss  
Typical application of Sindustris PBT TE5001SP: Automotive

| General Information                              |                         |                   |             |
|--------------------------------------------------|-------------------------|-------------------|-------------|
| Features                                         | Good Weather Resistance |                   |             |
|                                                  | Low Gloss               |                   |             |
| Uses                                             | Automotive Applications |                   |             |
| UL File Number                                   | E306922                 |                   |             |
| Processing Method                                | Injection Molding       |                   |             |
| Physical                                         | Nominal Value           | Unit              | Test Method |
| Specific Gravity                                 | 1.21                    | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)               | 0.70 to 0.80            | %                 | ASTM D955   |
| Mechanical                                       | Nominal Value           | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Break, 3.20 mm)   | 53.0                    | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | 90                      | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (6.40 mm)          | 2060                    | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (6.40 mm)         | 81.4                    | MPa               | ASTM D790   |
| Impact                                           | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact                              |                         |                   | ASTM D256   |
| -30°C, 3.20 mm                                   | 150                     | J/m               |             |
| 23°C, 3.20 mm                                    | 780                     | J/m               |             |
| Thermal                                          | Nominal Value           | Unit              | Test Method |
| Deflection Temperature Under Load                |                         |                   | ASTM D648   |
| 0.45 MPa, Unannealed, 6.40 mm                    | 100                     | °C                |             |
| 1.8 MPa, Unannealed, 6.40 mm                     | 110                     | °C                |             |
| Injection                                        | Nominal Value           | Unit              |             |
| Drying Temperature                               | 120                     | °C                |             |
| Drying Time                                      | 4.0 to 5.0              | hr                |             |
| Suggested Max Moisture                           | 0.020                   | %                 |             |
| Rear Temperature                                 | 250 to 260              | °C                |             |
| Middle Temperature                               | 250 to 260              | °C                |             |
| Front Temperature                                | 255 to 260              | °C                |             |
| Nozzle Temperature                               | 260 to 270              | °C                |             |

|                        |              |    |
|------------------------|--------------|----|
| Processing (Melt) Temp | 260 to 270   | °C |
| Mold Temperature       | 60.0 to 80.0 | °C |
| NOTE                   |              |    |
| 1.                     | 50 mm/min    |    |
| 2.                     | 50 mm/min    |    |
| 3.                     | 5.0 mm/min   |    |
| 4.                     | 5.0 mm/min   |    |

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