

# Sindustris PBT TE5001G

Polycarbonate + PBT  
Sincerity Australia Pty Ltd.

Message:

Sindustris PBT TE5001G is a Polycarbonate + PBT (PC+PBT) material. It is available in Asia Pacific for injection molding.  
Important attributes of Sindustris PBT TE5001G are:  
Good Dimensional Stability  
Good Weather Resistance  
Impact Resistant  
Typical application of Sindustris PBT TE5001G: Automotive

| General Information                              |                            |                   |             |
|--------------------------------------------------|----------------------------|-------------------|-------------|
| Features                                         | Good Dimensional Stability |                   |             |
|                                                  | Good Weather Resistance    |                   |             |
|                                                  | High Impact Resistance     |                   |             |
| Uses                                             | Automotive Applications    |                   |             |
|                                                  | Automotive Interior Trim   |                   |             |
| 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)   | 55.9                       | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm) | > 100                      | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (6.40 mm)          | 1960                       | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (6.40 mm)         | 88.3                       | MPa               | ASTM D790   |
| Impact                                           | Nominal Value              | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm)              | 690                        | J/m               | ASTM D256   |
| 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                     | 115                        | °C                |             |
| Peak Melting Temperature                         | 225                        | °C                | ASTM D3418  |
| 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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