

# Sindustris PC EC5001AF

Polycarbonate

Sincerity Australia Pty Ltd.

Message:

Sindustris PC EC5001AF is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.

Important attributes of Sindustris PC EC5001AF are:

Flame Rated

Antistatic

Typical applications include:

Electrical/Electronic Applications

Housings

| General Information                                      |                                    |                   |             |
|----------------------------------------------------------|------------------------------------|-------------------|-------------|
| Additive                                                 | Antistatic                         |                   |             |
| Features                                                 | Antistatic                         |                   |             |
|                                                          | General Purpose                    |                   |             |
| Uses                                                     | Electrical/Electronic Applications |                   |             |
|                                                          | Housings                           |                   |             |
| UL File Number                                           | E306922                            |                   |             |
| Processing Method                                        | Injection Molding                  |                   |             |
| Physical                                                 | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                                         | 1.18                               | 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)                       | 0.40 to 0.60                       | %                 | ASTM D955   |
| Mechanical                                               | Nominal Value                      | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Yield, 3.20 mm)           | 52.0                               | MPa               | ASTM D638   |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)         | > 50                               | %                 | ASTM D638   |
| Flexural Modulus <sup>3</sup> (3.20 mm)                  | 2450                               | MPa               | ASTM D790   |
| Flexural Strength <sup>4</sup> (3.20 mm)                 | 85.3                               | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C, 3.20 mm)                      | 490                                | J/m               | ASTM D256   |
| Thermal                                                  | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 98.0                               | °C                | ASTM D648   |
| Electrical                                               | Nominal Value                      | Unit              | Test Method |
| Surface Resistivity                                      | 1.0E+10 to 1.0E+11                 | ohms              | IEC 60093   |
| Flammability                                             | Nominal Value                      | Unit              | Test Method |
| Flame Rating (1.60 mm, WT, BK)                           | V-2                                |                   | UL 94       |
| Injection                                                | Nominal Value                      | Unit              |             |
| Drying Temperature                                       | 60.0 to 80.0                       | °C                |             |

|                        |              |     |
|------------------------|--------------|-----|
| Drying Time            | 4.0 to 6.0   | hr  |
| Suggested Max Moisture | 0.020        | %   |
| Rear Temperature       | 210 to 240   | °C  |
| Middle Temperature     | 215 to 250   | °C  |
| Front Temperature      | 225 to 260   | °C  |
| Nozzle Temperature     | 220 to 250   | °C  |
| Processing (Melt) Temp | 230 to 260   | °C  |
| Mold Temperature       | 50.0 to 70.0 | °C  |
| Screw Speed            | 40 to 70     | rpm |

#### NOTE

- |    |           |
|----|-----------|
| 1. | 50 mm/min |
| 2. | 50 mm/min |
| 3. | 10 mm/min |
| 4. | 10 mm/min |

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