

# Sindustris PC GN5002RFD

Polycarbonate  
Sincerity Australia Pty Ltd.

Message:

Sindustris PC GN5002RFD is a Polycarbonate (PC) material. It is available in Asia Pacific for injection molding.  
Important attributes of Sindustris PC GN5002RFD are:  
Flame Rated  
Flame Retardant  
Halogen Free  
Impact Resistant  
Typical applications include:  
Electrical/Electronic Applications  
Housings

| General Information                                               |                                    |                   |                         |
|-------------------------------------------------------------------|------------------------------------|-------------------|-------------------------|
| Additive                                                          | Flame Retardant                    |                   |                         |
| Features                                                          | Flame Retardant                    |                   |                         |
|                                                                   | General Purpose                    |                   |                         |
|                                                                   | Halogen Free                       |                   |                         |
|                                                                   | High Impact Resistance             |                   |                         |
| 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) (250°C/2.16 kg)                         | 15                                 | 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)                    | 61.3                               | MPa               | ASTM D638               |
| Tensile Elongation <sup>2</sup> (Break, 3.20 mm)                  | > 60                               | %                 | ASTM D638               |
| Flexural Modulus <sup>3</sup> (3.20 mm)                           | 2600                               | MPa               | ASTM D790               |
| Flexural Strength <sup>4</sup> (3.20 mm)                          | 95.1                               | MPa               | ASTM D790               |
| Impact                                                            | Nominal Value                      | Unit              | Test Method             |
| Notched Izod Impact (23°C, 3.20 mm)                               | 590                                | J/m               | ASTM D256               |
| Thermal                                                           | Nominal Value                      | Unit              | Test Method             |
| Deflection Temperature Under Load (0.45 MPa, Unannealed, 6.40 mm) | 92.0                               | °C                | ASTM D648               |
| Vicat Softening Temperature                                       | 97.0                               | °C                | ASTM D1525 <sup>5</sup> |
| RTI Elec                                                          | 60.0                               | °C                | UL 746                  |

|                        |                                   |      |             |
|------------------------|-----------------------------------|------|-------------|
| RTI Imp                | 60.0                              | °C   | UL 746      |
| RTI Str                | 60.0                              | °C   | UL 746      |
| Flammability           | Nominal Value                     |      | Test Method |
| Flame Rating           |                                   |      | UL 94       |
| 0.850 mm               | V-2                               |      |             |
| 1.00 mm                | V-0                               |      |             |
| Injection              | Nominal Value                     | Unit |             |
| Drying Temperature     | 80.0 to 90.0                      | °C   |             |
| Drying Time            | 3.0 to 4.0                        | hr   |             |
| Suggested Max Moisture | 0.020                             | %    |             |
| Rear Temperature       | 220 to 255                        | °C   |             |
| Middle Temperature     | 220 to 275                        | °C   |             |
| Front Temperature      | 245 to 275                        | °C   |             |
| Nozzle Temperature     | 245 to 275                        | °C   |             |
| Processing (Melt) Temp | 245 to 275                        | °C   |             |
| Mold Temperature       | 50.0 to 80.0                      | °C   |             |
| Back Pressure          | 0.981 to 1.96                     | 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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#### Recommended distributors for this material

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