

# RTP 1005 FR A

Polybutylene Terephthalate

RTP Company

Message:

Glass Fiber - Flame Retardant - UL94 V-0

| General Information                       |                                                       |                   |             |
|-------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| UL YellowCard                             | E84658-251412                                         | E84658-251409     |             |
| Filler / Reinforcement                    | Glass fiber reinforced material, 30% filler by weight |                   |             |
| Features                                  | Flame retardancy                                      |                   |             |
| RoHS Compliance                           | Contact manufacturer                                  |                   |             |
| Processing Method                         | Injection molding                                     |                   |             |
| Physical                                  | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                          | 1.63                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)        | 0.15 - 0.25                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)            | 0.060                                                 | %                 | ASTM D570   |
| Moisture Content                          | 0.030                                                 | %                 |             |
| Primary Additive                          | 30                                                    | %                 |             |
| Hardness                                  | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 118                                                   |                   | ASTM D785   |
| Mechanical                                | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                           | 10300                                                 | MPa               | ASTM D638   |
| Tensile Strength                          | 138                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                | 2.5 - 3.5                                             | %                 | ASTM D638   |
| Flexural Modulus                          | 9650                                                  | MPa               | ASTM D790   |
| Flexural Strength                         | 221                                                   | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)             | 96                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)           | 800                                                   | J/m               | ASTM D4812  |
| Thermal                                   | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load         |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                    | 210                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                     | 204                                                   | °C                | ASTM D648   |
| Electrical                                | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                        | > 1.0E+15                                             | ohms·cm           | ASTM D257   |
| Dielectric Strength <sup>1</sup> (in Oil) | 24                                                    | kV/mm             | ASTM D149   |
| Dielectric Constant (1 MHz)               | 3.70                                                  |                   | ASTM D150   |
| Dissipation Factor (1 MHz)                | 0.020                                                 |                   | ASTM D150   |
| Flammability                              | Nominal Value                                         | Unit              | Test Method |
| Flame Rating                              |                                                       |                   | UL 94       |

| 0.800 mm                       | V-0                   | UL 94 |
|--------------------------------|-----------------------|-------|
| 3.00 mm                        | V-0                   | UL 94 |
| Injection                      | Nominal Value         | Unit  |
| Drying Temperature             | 121                   | °C    |
| Drying Time                    | 4.0                   | hr    |
| Dew Point                      | -28.9                 | °C    |
| Processing (Melt) Temp         | 238 - 271             | °C    |
| Mold Temperature               | 79.4 - 107            | °C    |
| Injection Pressure             | 68.9 - 103            | MPa   |
| Injection instructions         |                       |       |
| Desiccant Type Dryer Required. |                       |       |
| NOTE                           |                       |       |
| 1.                             | Method A (short time) |       |

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## Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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