

# RTP 1099 X 117586 A

Polybutylene Terephthalate

RTP Company

Message:

Glass Fiber - Flame Retardant - Halogen Free

| General Information                         |                                                       |                   |             |
|---------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                      | Glass fiber reinforced material, 15% filler by weight |                   |             |
| Features                                    | Halogen-free                                          |                   |             |
|                                             | Flame retardancy                                      |                   |             |
| RoHS Compliance                             | Contact manufacturer                                  |                   |             |
| Processing Method                           | Injection molding                                     |                   |             |
| Physical                                    | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                            | 1.40                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)          | 0.50 - 0.70                                           | %                 | ASTM D955   |
| Moisture Content                            | 0.030                                                 | %                 |             |
| Primary Additive                            | 15                                                    | %                 |             |
| Mechanical                                  | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                             | 6210                                                  | MPa               | ASTM D638   |
| Tensile Strength                            | 89.6                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                  | 2.5 - 3.0                                             | %                 | ASTM D638   |
| Flexural Modulus                            | 5170                                                  | MPa               | ASTM D790   |
| Flexural Strength                           | 138                                                   | MPa               | ASTM D790   |
| Impact                                      | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)               | 53                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)             | 430                                                   | J/m               | ASTM D4812  |
| Flammability                                | Nominal Value                                         |                   | Test Method |
| Flame Rating                                |                                                       |                   | UL 94       |
| 1.50 mm, ** Values per RTP Company testing. | V-0                                                   |                   | UL 94       |
| 3.00 mm, ** Values per RTP Company testing. | 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                      |                                                       |                   |             |

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Desiccant Type Dryer Required.

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