

# RTP 1104 M 15 BLK

Polyethylene Terephthalate

RTP Company

Message:

25% Glass Fiber - 15% Mineral

| General Information                                     |                                                       |                   |             |
|---------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Glass fiber reinforced material, 25% filler by weight |                   |             |
|                                                         | Mineral filler, 15% filler by weight                  |                   |             |
| RoHS Compliance                                         | Contact manufacturer                                  |                   |             |
| Processing Method                                       | Injection molding                                     |                   |             |
| Physical                                                | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                        | 1.64                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                      | 0.10 - 0.30                                           | %                 | ASTM D955   |
| Moisture Content                                        | 0.010                                                 | %                 |             |
| Mechanical                                              | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                                         | 13800                                                 | MPa               | ASTM D638   |
| Tensile Strength                                        | 138                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 3.0 - 5.0                                             | %                 | ASTM D638   |
| Flexural Modulus                                        | 11700                                                 | MPa               | ASTM D790   |
| Flexural Strength                                       | 200                                                   | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                           | 67                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                         | 480                                                   | J/m               | ASTM D4812  |
| Thermal                                                 | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 207                                                   | °C                | ASTM D648   |
| Injection                                               | Nominal Value                                         | Unit              |             |
| Drying Temperature                                      | 121                                                   | °C                |             |
| Drying Time                                             | 4.0                                                   | hr                |             |
| Dew Point                                               | -40.0                                                 | °C                |             |
| Processing (Melt) Temp                                  | 277 - 288                                             | °C                |             |
| Mold Temperature                                        | 98.9 - 121                                            | °C                |             |
| Injection Pressure                                      | 55.2 - 82.7                                           | MPa               |             |
| Injection instructions                                  |                                                       |                   |             |
| Desiccant Type Dryer Required.                          |                                                       |                   |             |

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