

# RTP 151 HF

Polypropylene  
RTP Company

Message:  
High Flow - Flame Retardant - Halogen Free

| General Information                                        |                 |                      |             |
|------------------------------------------------------------|-----------------|----------------------|-------------|
| Features                                                   | Flame Retardant |                      |             |
|                                                            | Halogen Free    |                      |             |
|                                                            | High Flow       |                      |             |
| RoHS Compliance                                            |                 | Contact Manufacturer |             |
| Processing Method                                          |                 | Injection Molding    |             |
| Physical                                                   | Nominal Value   | Unit                 | Test Method |
| Specific Gravity                                           | 1.05            | g/cm <sup>3</sup>    | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                  | 18 to 22        | g/10 min             | ASTM D1238  |
| Molding Shrinkage - Flow (3.20 mm)                         | 1.5 to 2.0      | %                    | ASTM D955   |
| Water Absorption (23°C, 24 hr)                             | 0.030           | %                    | ASTM D570   |
| Mechanical                                                 | Nominal Value   | Unit                 | Test Method |
| Tensile Modulus                                            | 2340            | MPa                  | ASTM D638   |
| Tensile Strength                                           | 20.7            | MPa                  | ASTM D638   |
| Tensile Elongation (Yield)                                 | > 10            | %                    | ASTM D638   |
| Flexural Modulus                                           | 2070            | MPa                  | ASTM D790   |
| Flexural Strength                                          | 37.9            | MPa                  | ASTM D790   |
| Impact                                                     | Nominal Value   | Unit                 | Test Method |
| Notched Izod Impact (3.20 mm)                              | 21              | J/m                  | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 210             | J/m                  | ASTM D4812  |
| Thermal                                                    | Nominal Value   | Unit                 | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 54.4            | °C                   | ASTM D648   |
| Electrical                                                 | Nominal Value   | Unit                 | Test Method |
| Volume Resistivity                                         | > 1.0E+15       | ohms · cm            | ASTM D257   |
| Flammability                                               | Nominal Value   | Unit                 | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | V-0             |                      | UL 94       |
| Oxygen Index                                               | 34              | %                    | ASTM D2863  |
| Injection                                                  | Nominal Value   | Unit                 |             |
| Drying Temperature                                         | 79.4            | °C                   |             |
| Drying Time                                                | 2.0             | hr                   |             |
| Processing (Melt) Temp                                     | 191 to 204      | °C                   |             |

|                    |              |     |
|--------------------|--------------|-----|
| Mold Temperature   | 32.2 to 65.6 | °C  |
| Injection Pressure | 68.9 to 103  | MPa |

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