

# RTP 149 HB

Polypropylene  
RTP Company

Message:

Mica - UL94 HB

| General Information                |                           |                   |             |
|------------------------------------|---------------------------|-------------------|-------------|
| UL YellowCard                      | E84658-251554             |                   |             |
| Filler / Reinforcement             | Mica,25% Filler by Weight |                   |             |
| RoHS Compliance                    | Contact Manufacturer      |                   |             |
| Processing Method                  | Injection Molding         |                   |             |
| Physical                           | Nominal Value             | Unit              | Test Method |
| Specific Gravity                   | 1.08                      | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm) | 0.90 to 1.3               | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.020                     | %                 | ASTM D570   |
| Mechanical                         | Nominal Value             | Unit              | Test Method |
| Tensile Modulus                    | 4140                      | MPa               | ASTM D638   |
| Tensile Strength                   | 29.6                      | MPa               | ASTM D638   |
| Tensile Elongation (Yield)         | > 10                      | %                 | ASTM D638   |
| Flexural Modulus                   | 3450                      | MPa               | ASTM D790   |
| Flexural Strength                  | 48.3                      | MPa               | ASTM D790   |
| Impact                             | Nominal Value             | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)      | 48                        | 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  |                           |                   | ASTM D648   |
| 0.45 MPa, Unannealed               | 113                       | °C                |             |
| 1.8 MPa, Unannealed                | 102                       | °C                |             |
| 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)             | HB                        |                   | UL 94       |
| Additional Information             | Nominal Value             | Unit              |             |
| Primary Additive                   | 25                        | %                 |             |
| Injection                          | Nominal Value             | Unit              |             |
| Drying Temperature                 | 79.4                      | °C                |             |
| Drying Time                        | 2.0                       | hr                |             |
| Processing (Melt) Temp             | 191 to 232                | °C                |             |
| Mold Temperature                   | 32.2 to 65.6              | °C                |             |
| Injection Pressure                 | 68.9 to 103               | MPa               |             |

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