

# RTP 141 HI Z

Polypropylene  
RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.

| General Information                                        |                                                |                   |             |
|------------------------------------------------------------|------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Calcium carbonate filler, 20% filler by weight |                   |             |
| Features                                                   | Impact resistance, high                        |                   |             |
| Agency Ratings                                             | FDA not rated                                  |                   |             |
| RoHS Compliance                                            | Contact manufacturer                           |                   |             |
| Forms                                                      | Particle                                       |                   |             |
| Physical                                                   | Nominal Value                                  | Unit              | Test Method |
| Specific Gravity                                           | 1.05                                           | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                         | 1.4                                            | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                             | 0.020                                          | %                 | ASTM D570   |
| Hardness                                                   | Nominal Value                                  | Unit              | Test Method |
| Rockwell Hardness (R-Scale)                                | 88                                             |                   | ASTM D785   |
| Mechanical                                                 | Nominal Value                                  | Unit              | Test Method |
| Tensile Modulus                                            | 1720                                           | MPa               | ASTM D638   |
| Tensile Strength                                           | 23.0                                           | MPa               | ASTM D638   |
| Tensile Elongation (Break)                                 | 10                                             | %                 | ASTM D638   |
| Flexural Modulus                                           | 1380                                           | MPa               | ASTM D790   |
| Flexural Strength                                          | 34.0                                           | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                                  | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                              | 190                                            | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                            | 1300                                           | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value                                  | Unit              | Test Method |
| Deflection Temperature Under Load                          |                                                |                   | ASTM D648   |
| 0.45 MPa, not annealed                                     | 107                                            | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                      | 66.0                                           | °C                | ASTM D648   |
| Electrical                                                 | Nominal Value                                  | Unit              | Test Method |
| Volume Resistivity                                         | 1.0E+16                                        | ohms · cm         | ASTM D257   |
| Flammability                                               | Nominal Value                                  | Unit              | Test Method |
| Flame Rating (1.59 mm, Values per RTP Company testing.)    | HB                                             |                   | UL 94       |
| Additional Information                                     |                                                |                   |             |
| Molding Shrinkage, Linear-Flow, ASTM D955, 6.35mm: 20mm/m. |                                                |                   |             |
| Injection                                                  | Nominal Value                                  | Unit              |             |

|                    |             |     |
|--------------------|-------------|-----|
| Rear Temperature   | 218 - 274   | °C  |
| Middle Temperature | 218 - 274   | °C  |
| Front Temperature  | 218 - 274   | °C  |
| Mold Temperature   | 32.0 - 66.0 | °C  |
| Injection Pressure | 68.9 - 103  | MPa |

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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

