

# RTP 105 HI

Polypropylene Copolymer

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.  
-Preliminary Product Data per RTP Co.-

| General Information                |                                                       |                   |             |
|------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement             | Glass fiber reinforced material, 30% filler by weight |                   |             |
| Additive                           | Impact modifier                                       |                   |             |
| Features                           | Impact modification                                   |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Appearance                         | Black                                                 |                   |             |
|                                    | Natural color                                         |                   |             |
| Forms                              | Particle                                              |                   |             |
| Processing Method                  | Injection molding                                     |                   |             |
| Physical                           | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                   | 1.13                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.40                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.030                                                 | %                 | ASTM D570   |
| Hardness                           | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 90                                                    |                   | ASTM D785   |
| Mechanical                         | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                    | 4830                                                  | MPa               | ASTM D638   |
| Tensile Strength                   | 48.3                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 4.0                                                   | %                 | ASTM D638   |
| Flexural Modulus                   | 3790                                                  | MPa               | ASTM D790   |
| Flexural Strength                  | 68.9                                                  | MPa               | ASTM D790   |
| Compressive Strength               | 51.7                                                  | MPa               | ASTM D695   |
| Impact                             | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 110                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 430                                                   | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load  |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 152                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 141                                                   | °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 (1.59 mm, Values per RTP Company testing.) | HB            |      | UL 94       |
| Additional Information                                  |               |      |             |
| Mold Shrinkage, ASTM D-955, 0.25in.: 5mil/in.           |               |      |             |
| Injection                                               | Nominal Value | Unit |             |
| Drying Temperature                                      | 82.2          | °C   |             |
| Drying Time                                             | 2.0           | hr   |             |
| Suggested Max Regrind                                   | 20            | %    |             |
| Rear Temperature                                        | 218 - 274     | °C   |             |
| Middle Temperature                                      | 218 - 274     | °C   |             |
| Front Temperature                                       | 218 - 274     | °C   |             |
| Mold Temperature                                        | 32.2 - 65.6   | °C   |             |
| Injection Pressure                                      | 68.9 - 103    | MPa  |             |

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#### Recommended distributors for this material

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