

# RTP 205.3D HS

Polyamide 612

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, 33% filler by weight |                   |             |
| Additive                           | heat stabilizer                                       |                   |             |
| Features                           | Thermal Stability                                     |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Appearance                         | Black                                                 |                   |             |
|                                    | Natural color                                         |                   |             |
| Forms                              | Particle                                              |                   |             |
| Processing Method                  | Injection molding                                     |                   |             |
| Physical                           | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                   | 1.32                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.40                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.25                                                  | %                 | ASTM D570   |
| Hardness                           | Nominal Value                                         | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 121                                                   |                   | ASTM D785   |
| Mechanical                         | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                    | 8960                                                  | MPa               | ASTM D638   |
| Tensile Strength                   | 152                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 3.0                                                   | %                 | ASTM D638   |
| Flexural Modulus                   | 7580                                                  | MPa               | ASTM D790   |
| Flexural Strength                  | 228                                                   | MPa               | ASTM D790   |
| Impact                             | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 110                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 960                                                   | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load  |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 218                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 216                                                   | °C                | ASTM D648   |
| Electrical                         | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                 | 1.0E+13                                               | ohms · cm         | ASTM D257   |
| Flammability                       | Nominal Value                                         | Unit              | Test Method |

| Flame Rating (1.59 mm)                                                                         | HB            | UL 94 |
|------------------------------------------------------------------------------------------------|---------------|-------|
| Additional Information                                                                         |               |       |
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 5mil/in.Tensile Elongation, ASTM D-638: 3-4% |               |       |
| Injection                                                                                      | Nominal Value | Unit  |
| Drying Temperature                                                                             | 79.4          | °C    |
| Drying Time                                                                                    | 4.0           | hr    |
| Suggested Max Moisture                                                                         | 0.20          | %     |
| Suggested Max Regrind                                                                          | 20            | %     |
| Rear Temperature                                                                               | 254 - 282     | °C    |
| Middle Temperature                                                                             | 254 - 282     | °C    |
| Front Temperature                                                                              | 254 - 282     | °C    |
| Mold Temperature                                                                               | 60.0 - 93.3   | °C    |
| Injection Pressure                                                                             | 68.9 - 138    | MPa   |

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