# RTP 203D GB 20 TFE 15

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, 20% filler by weight<br>Glass beads, 20% filler by weight | | |
| Additive | PTFE lubricant (15%) | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black<br>Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.53 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.40 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.20 | % | ASTM D570 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 120 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 8270 | MPa | ASTM D638 |
| Tensile Strength | 103 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 6890 | MPa | ASTM D790 |
| Flexural Strength | 165 | MPa | ASTM D790 |
| Compressive Strength | 110 | MPa | ASTM D695 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (3.18 mm) | 96 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 750 | 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 |

| | | | |
|---|---|---|---|
| CLTE - Flow | 3.6E-5 | cm/cm/°C | ASTM D696 |
| Thermal Conductivity | 0.36 | W/m/K | ASTM C177 |
| **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, 0.25 in.: 5 mil/in.Wear Factor, K, ASTM D-3702: 20E-10in³/min/ft/lb/hrCoefficient of Friction, ASTM 3702, Dynamic: 0.25Both the wear factor and coefficient of friction were tested on a Falex Model No.6 Wear Testing Machine, at 50 FPM, 2000 PV, against C1018 Steel hardness 15-25 Rockwell C, 14-17 micro smoothness.

| Injection | Nominal Value | Unit |
|---|---|---|
| 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 |



## Recommended distributors for this material

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