

# RTP 205.3 FR

Polyamide 66

RTP Company

Message:

Glass Fiber - Flame Retardant

| General Information                                         |                                                       |                   |             |
|-------------------------------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                      | Glass fiber reinforced material, 33% filler by weight |                   |             |
| Features                                                    | Flame retardancy                                      |                   |             |
| RoHS Compliance                                             | Contact manufacturer                                  |                   |             |
| Processing Method                                           | Injection molding                                     |                   |             |
| Physical                                                    | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                            | 1.69                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                          | 0.10 - 0.20                                           | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                              | 0.60                                                  | %                 | ASTM D570   |
| Moisture Content                                            | 0.20                                                  | %                 |             |
| Primary Additive                                            | 33                                                    | %                 |             |
| Mechanical                                                  | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                                             | 13100                                                 | MPa               | ASTM D638   |
| Tensile Strength                                            | 159                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                  | 2.0 - 3.0                                             | %                 | ASTM D638   |
| Flexural Modulus                                            | 11400                                                 | MPa               | ASTM D790   |
| Flexural Strength                                           | 241                                                   | MPa               | ASTM D790   |
| Impact                                                      | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                               | 91                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                             | 800                                                   | J/m               | ASTM D4812  |
| Thermal                                                     | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load                           |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                                      | 249                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                       | 232                                                   | °C                | ASTM D648   |
| Flammability                                                | Nominal Value                                         |                   | Test Method |
| Flame Rating (0.800 mm, ** Values per RTP Company testing.) | V-0                                                   |                   | UL 94       |
| Injection                                                   | Nominal Value                                         | Unit              |             |
| Drying Temperature                                          | 79.4                                                  | °C                |             |
| Drying Time                                                 | 4.0                                                   | hr                |             |
| Dew Point                                                   | -17.8                                                 | °C                |             |
| Processing (Melt) Temp                                      | 277 - 299                                             | °C                |             |
| Mold Temperature                                            | 65.6 - 107                                            | °C                |             |
| Injection Pressure                                          | 68.9 - 124                                            | MPa               |             |

## Injection instructions

Desiccant Type Dryer Required.

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## Recommended distributors for this material

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