

# RTP 4605 HI

Syndiotactic Polystyrene

RTP Company

Message:

Glass Fiber - Impact Modified

| General Information                |                                  |                   |             |
|------------------------------------|----------------------------------|-------------------|-------------|
| Filler / Reinforcement             | Glass Fiber,30% Filler by Weight |                   |             |
| Additive                           | Impact Modifier                  |                   |             |
| Features                           | Impact Modified                  |                   |             |
| RoHS Compliance                    | Contact Manufacturer             |                   |             |
| Processing Method                  | Injection Molding                |                   |             |
| Physical                           | Nominal Value                    | Unit              | Test Method |
| Specific Gravity                   | 1.25                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm) | 0.30                             | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.010                            | %                 | ASTM D570   |
| Moisture Content                   | 0.020                            | %                 |             |
| Primary Additive                   | 30                               | %                 |             |
| Mechanical                         | Nominal Value                    | Unit              | Test Method |
| Tensile Modulus                    | 8270                             | MPa               | ASTM D638   |
| Tensile Strength                   | 110                              | MPa               | ASTM D638   |
| Tensile Elongation (Yield)         | 2.5                              | %                 | ASTM D638   |
| Flexural Modulus                   | 8270                             | MPa               | ASTM D790   |
| Flexural Strength                  | 165                              | MPa               | ASTM D790   |
| Impact                             | Nominal Value                    | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)      | 140                              | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)    | 590                              | J/m               | ASTM D4812  |
| Injection                          | Nominal Value                    | Unit              |             |
| Drying Temperature                 | 82.2                             | °C                |             |
| Drying Time                        | 2.0                              | hr                |             |
| Dew Point                          | -28.9                            | °C                |             |
| Processing (Melt) Temp             | 293 to 327                       | °C                |             |
| Mold Temperature                   | 71.1 to 149                      | °C                |             |
| Injection Pressure                 | 68.9 to 103                      | MPa               |             |

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