

# Generic PP, Unspecified - Glass\Mineral

Polypropylene

Generic

Message:

This data represents typical values that have been calculated from all products classified as: Generic PP, Unspecified - Glass\Mineral  
This information is provided for comparative purposes only.

| General Information                   |                |                   |             |
|---------------------------------------|----------------|-------------------|-------------|
| Filler / Reinforcement                | Glass \Mineral |                   |             |
| Physical                              | Nominal Value  | Unit              | Test Method |
| Specific Gravity                      |                |                   |             |
| --                                    | 1.12 - 1.27    | g/cm <sup>3</sup> | ASTM D792   |
| 23°C                                  | 1.04 - 1.42    | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR)             |                |                   |             |
| 230°C/2.16 kg                         | 3.7 - 10       | g/10 min          | ASTM D1238  |
| 230°C/2.16 kg                         | 2.0 - 12       | g/10 min          | ISO 1133    |
| Molding Shrinkage                     |                |                   |             |
| Flow: 23°C                            | 0.28 - 0.90    | %                 | ASTM D955   |
| Transverse flow: 23°C                 | 0.89 - 1.3     | %                 | ASTM D955   |
| Hardness                              | Nominal Value  | Unit              | Test Method |
| Rockwell Hardness (23°C)              | 100 - 110      |                   | ASTM D785   |
| Durometer Hardness (23°C)             | 74 - 79        |                   | ASTM D2240  |
| Mechanical                            | Nominal Value  | Unit              | Test Method |
| Tensile Strength                      |                |                   |             |
| Yield, 23°C                           | 27.6 - 93.9    | MPa               | ASTM D638   |
| 23°C                                  | 26.2 - 81.5    | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)      | 2.9 - 5.1      | %                 | ASTM D638   |
| Flexural Modulus                      |                |                   |             |
| 23°C                                  | 1610 - 6020    | MPa               | ASTM D790   |
| 23°C                                  | 2300 - 7320    | MPa               | ISO 178     |
| Flexural Strength                     |                |                   |             |
| 23°C                                  | 51.5 - 127     | MPa               | ASTM D790   |
| 23°C                                  | 37.0 - 125     | MPa               | ISO 178     |
| Impact                                | Nominal Value  | Unit              | Test Method |
| Charpy Notched Impact Strength (23°C) | 4.0 - 8.2      | kJ/m <sup>2</sup> | ISO 179     |
| Notched Izod Impact (23°C)            | 35 - 110       | J/m               | ASTM D256   |
| Unnotched Izod Impact (23°C)          | 190 - 440      | J/m               | ASTM D256   |
| Dart Drop Impact (23°C)               | 0.226 - 0.845  | J                 | ASTM D5420  |
| Thermal                               | Nominal Value  | Unit              | Test Method |
| Deflection Temperature Under Load     |                |                   |             |

| 0.45 MPa, not annealed | 127 - 160     | °C   | ASTM D648  |
|------------------------|---------------|------|------------|
| 1.8 MPa, not annealed  | 85.0 - 148    | °C   | ASTM D648  |
| 1.8 MPa, not annealed  | 80.0 - 150    | °C   | ISO 75-2/A |
| Injection              | Nominal Value | Unit |            |
| Drying Temperature     | 70.0 - 83.0   | °C   |            |
| Drying Time            | 1.5 - 3.1     | hr   |            |
| Suggested Max Moisture | 0.048 - 0.053 | %    |            |
| Rear Temperature       | 185 - 246     | °C   |            |
| Middle Temperature     | 195 - 246     | °C   |            |
| Front Temperature      | 205 - 246     | °C   |            |
| Nozzle Temperature     | 215 - 232     | °C   |            |
| Processing (Melt) Temp | 210 - 239     | °C   |            |
| Mold Temperature       | 37.6 - 50.6   | °C   |            |
| Injection Pressure     | 6.55 - 85.9   | MPa  |            |
| Back Pressure          | 0.345 - 1.44  | MPa  |            |
| Injection instructions |               |      |            |

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