



## Technical Data Sheet

Grade

**MWR PP8100GC20**

**Product Description:**

**Polypropylene 20% Glass Fiber Reinforced Chemically Coupled**

| Physical Properties                    | Method | English      | SI               |
|--|--------|--------------|------------------|
| Specific Gravity                       | D 792  | -            | 1.040            |
| Melt Flow Rate (230/2.16)              | D 1238 | -            | 8.0 g/10 minutes |
| Linear Mold Shrinkage (Typical)        | D 955  | 0.004 in/in  | 0.004 mm/mm      |
| Mechanical Properties                  | Method | English      | SI               |
| Tensile Strength at Yield              | D 638  | 9500 psi     | 65.52 Mpa        |
| Tensile Elongation at Yield            | D 638  | 5.0 %        | 5.0 %            |
| Tensile Elongation at Break            | D 638  | 5.5 %        | 5.5 %            |
| Flexural Modulus (Tangent)             | D 790  | 500000 psi   | 3450 Mpa         |
| Izod Impact (notched)                  | D 256  | 1.5 ft-lb/in | 80 J/m           |
| Thermal Properties                     | Method | English      | SI               |
| Heat Deflection Temperature at 66 psi  | D 648  | 300 F        | 149 C            |
| Heat Deflection Temperature at 264 psi | D 648  | 270 F        | 132 C            |
| Processing (Injection Molding)         |        | English      | SI               |
| Drying Temperature                     |        | 175 F        | 79 C             |
| Drying Time                            |        | 3 hrs        | 3 hrs            |
| Max Moisture Content                   |        | 0.20 %       | 0.20 %           |
| Rear Barrel Temperature                |        | 400 F        | 204 C            |
| Middle Barrel Temperature              |        | 410 F        | 210 C            |
| Front Barrel Temperature               |        | 420 F        | 216 C            |
| Nozzle Temperature                     |        | 420 F        | 216 C            |
| Stock Temperature                      |        | 420 F        | 216 C            |
| Mold Temperature                       |        | 80 F         | 27 C             |

**Comments:**

Drying is not typically necessary.

Values shown are averages and not to be construed as specifications.

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