



Technical Data Sheet

Grade

MWR PA6 4100GF33HS

Product Description:

Polyamide (Nylon) 6 33% Glass Fiber Reinforced Heat Stabilized

| Physical Properties | Method | English | SI |
|--|--------|--------------|-------------|
| Specific Gravity | D 792 | - | 1.380 |
| Melt Point | D 789 | 428 F | 220 C |
| Linear Mold Shrinkage (Typical) | D 955 | 0.003 in/in | 0.003 mm/mm |
| Mechanical Properties | Method | English | SI |
| Tensile Strength at Break | D 638 | 26000 psi | 179 Mpa |
| Tensile Elongation at Break | D 638 | 5 % | 5 % |
| Flexural Modulus (Tangent) | D 790 | 1200000 psi | 8280 Mpa |
| Izod Impact (notched) | D 256 | 2.0 ft-lb/in | 107 J/m |
| Thermal Properties | Method | English | SI |
| Heat Deflection Temperature at 264 psi | D 648 | 405 F | 207 C |
| Processing (Injection Molding) | | English | SI |
| Drying Temperature | | 175 F | 79 C |
| Drying Time | | 4 hrs | 4 hrs |
| Max Moisture Content | | 0.20 % | 0.20 % |
| Rear Barrel Temperature | | 490 F | 254 C |
| Middle Barrel Temperature | | 500 F | 260 C |
| Front Barrel Temperature | | 510 F | 266 C |
| Nozzle Temperature | | 510 F | 266 C |
| Stock Temperature | | 520 F | 271 C |
| Mold Temperature | | 170 F | 77 C |

Comments:

All properties based on dry as molded testing.

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

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