



## Technical Data Sheet

Grade  
**MWR PA6 4100**

### Product Description:

Polyamide (Nylon) 6 General Purpose

Physical Properties	Method	English	SI
Specific Gravity	D 792	-	1.130
Melt Point	D 789	428 F	220 C
Linear Mold Shrinkage (Typical)	D 955	0.012 in/in	0.012 mm/mm
Mechanical Properties	Method	English	SI
Tensile Strength at Yield	D 638	11000 psi	75.86 Mpa
Tensile Elongation at Break	D 638	40 %	40 %
Flexural Modulus (Tangent)	D 790	400000 psi	2760 Mpa
Izod Impact (notched)	D 256	1.1 ft-lb/in	60 J/m
Thermal Properties	Method	English	SI
Heat Deflection Temperature at 66 psi	D 648	350 F	177 C
Heat Deflection Temperature at 264 psi	D 648	150 F	66 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		160 F	71 C

### Comments:

Note: All properties tested on specimens conditioned dry as molded.

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

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