



Technical Data Sheet

Grade

PC MWR M5002

Product Description:

Polycarbonate Utility Grade (Black Only)

Physical Properties	Method	English	SI
Specific Gravity	D 792	-	1.200
Melt Flow Rate (300/1.2)	D 1238	-	15 g/10 minutes
Linear Mold Shrinkage (Typical)	D 955	0.006 in/in	0.006 mm/mm
Mechanical Properties	Method	English	SI
Tensile Strength at Yield	D 638	9000 psi	62.07 Mpa
Tensile Elongation at Break	D 638	65 %	65 %
Flexural Modulus (Tangent)	D 790	340000 psi	2340 Mpa
Izod Impact (notched)	D 256	14 ft-lb/in	750 J/m
Thermal Properties	Method	English	SI
Heat Deflection Temperature at 66 psi	D 648	275 F	135 C
Heat Deflection Temperature at 264 psi	D 648	260 F	127 C
Processing (Injection Molding)		English	SI
Drying Temperature		250 F	121 C
Drying Time		4 hrs	4 hrs
Max Moisture Content		0.04 %	0.04 %
Rear Barrel Temperature		550 F	288 C
Middle Barrel Temperature		560 F	293 C
Front Barrel Temperature		570 F	299 C
Nozzle Temperature		570 F	299 C
Stock Temperature		570 F	299 C
Mold Temperature		180 F	82 C

Comments:

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

www.midwestresins.com