



Technical Data Sheet

Grade

MWR GPS13200

Product Description:

General Purpose (Crystal) Polystyrene

Physical Properties	Method	English	SI
Specific Gravity	D 792	-	1.040
Melt Flow Rate (200/5.0)	D 1238	-	10 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	6400 psi	44.1 Mpa
Tensile Elongation at Break	D 638	1.5 %	1.5 %
Flexural Modulus (Tangent)	D 790	470000 psi	3240 Mpa
Izod Impact (notched)	D 256	0.40 ft-lb/in	21 J/m
Hardness (Rockwell)	D 785	105 R	105 R

Thermal Properties	Method	English	SI
Heat Deflection Temperature at 66 psi	D 648	200 F	93 C
Heat Deflection Temperature at 264 psi	D 648	190 F	88 C

Processing (Injection Molding)	English	SI
Drying Temperature	170 F	77 C
Drying Time	3 hrs	3 hrs
Max Moisture Content	0.20 %	0.20 %
Rear Barrel Temperature	410 F	210 C
Middle Barrel Temperature	420 F	216 C
Front Barrel Temperature	430 F	221 C
Nozzle Temperature	430 F	221 C
Stock Temperature	440 F	227 C
Mold Temperature	120 F	49 C

Comments:

Drying is usually not necessary

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

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