

Typical Material Data of P-20m

Typical Chemistry Composition

C	Mn	SI	Cr	Mo	Ni
0.34	1.30	.30	1.90	0.25	0.77

P-20m Applications:

Injection molds
Compression molds
Mold frames
Blow molds
Die holders
Zinc Die cast Dies

P-20m is a modified AISI P20 quality mold steel, supplied in the prehardened condition with a hardness of 277-321 HB. Which makes P-20m a good choice because of its good machinability and polishability with no heat treat costs.

Mechanical Properties

Approximate tensile test properties at a hardness of 302 HB

Tensile Strength (psi)	Yield Strength (psi)	Elongation	Reduction Area
155,000	130,000	20 %	60 %

Physical Properties

Density 0.284 lbs/cubic inch at 70F

Coefficient of Thermal Expansion in/in/F		Thermal Conductivity, BTU in/ft ² hr F	
70-400F	0.0000070	70F	202
70-600F	0.00000725	650F	205
70-800F	0.0000075	1300F	215

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