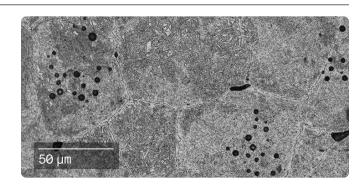
Tooling for plastic injection molding



[Material Data Sheet]

A2 Tool Steel



COMPOSITION %	
Fe	Balance
Cr	4.75 - 5.50
Мо	0.90 - 1.40
Mn	0.40 - 1.00
Si	0.10 - 0.50
V	0.15 - 0.50
С	0.95 - 1.05
P	0.03 (max)

OTHER STANDARD DESIGNATIONS ³
ASTM A681
UNS T30102
DIN 1.2363

MECHANICAL PROPERTIES 1			
	Standard	Studio System 2 ² After quench and temper	
Compressive Yield strength (MPa)	ASTM E9	1820	
Young's modulus (GPa)	ASTM E9	180	
Transverse Rupture Strength (MPa)	ASTM B528	1255	
Hardness (HRC)	ASTM E18	52	
Density (g/cc)	ASTM B311	7.45	

ATTRIBUTES & APPLICATIONS
Heat-treatable with high hardenability
High dimensional stability after heat treatment
Good toughness and wear resistance
Blanking and forming punches and dies

 $End-use\ material\ performance\ is\ impacted\ (+/-)\ by\ certain\ factors\ including\ but\ not\ limited\ to\ part\ geometry\ and\ design,\ application\ and\ evaluation\ conditions,\ etc.$

^{1.} Density, Hardness, TRS and Compressive Yield Strength data reported are mean values minus 1 sigma.

^{2.} Heat treated samples were solutionized at 980°C for 30 minutes, air quenched, then double tempered at 204°C (400°F) for 2 hours per temper.

 $^{{\}tt 3.\,Listed\,designations\,are\,for\,reference\,purposes\,only.\,Composition\,and\,mechanical\,properties\,may\,vary.}$