## Cost of plastic part: Model 712 Receiver Insert

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 Parts Per Year	10,000	30,000	60,000			_	
Material	PA66 3-%GF	PA66 3-%GF	PA66 3-%GF				
	712	712	712				
	Receiver	Receiver	Receiver				
Part	insert	Insert	Insert				
Part Volume	0.7419	0.7419	0.7419	in3			
Part Weight	0.0391	0.0391	0.0391	lb			
Runner Volume	0.0982	0.0982	0.0982	in3			
Runner Weight	0.0052	0.0052	0.0052	lb			
Annual Resin Usage	443	1,329	2,657	lb			
Resin Cost	\$2.50	\$2.50	\$2.50	\$/lb			
Filling Time	2	2	2	sec			
Mold Open Time	7	7	7	sec			
Cooling Time	22.2002	22.2002	22.2002	Sec			
Cycle Time	31.2002	31.2002	31.2002	sec		Theor	
Number of Cavities	1	1	1	Cavities			٠
Shot Size	0.7	0.7	0.7	oz		227	
Projected Area	5	5	5	in2		683	
Press Size (Clamp Force Required)	19	19	19	ton		1,010	
Press Size (Platen Size Required)	248	248	248	ton		7	
Press Size (Shot Size Required)	9	9	9	ton			٠
Press Size	248	248	248	ton			
Scrap Rate	0	0	0	%			
Regrind Rate	2.5	2.5	2.5	%		بي. 12 (دي. ا	1
Mold Maintenance Cost	0.5	0.5	0.5	\$/1,000			
Press Cost/Hour	41.62	41.62	41.62			6.24	
Set Up Fee	250.00	250.00	250.00	-170 <sup>1</sup> )	Ĵ. 49	3.5 	
 Press Cost	0.394721	0.378054	0.373887		98523. s	- 100g	•
Material Cost	0.110727	0.110727	0.110727	\$/part	羅1365	No. 1	
Total Cost	\$0.51	\$0.49	\$0.48	\$/part	1.2	ገራ ያሉ ተጠርጀ ፕሮፌኒ የመስፈ	۰

Theoretical Capacity (100% Utilization	1)
1 Cavity(ies)	
227,999 parts/yr (one shift)	
683,996 parts/yr (three shift)	
1,010,763 Parts/yr (Max theoretical)	
7,500 psi (Injection Pressure)	1
28/37	

Set Up Fee	250.00	250.00	250.00	19 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
Press Cost	0.394721	0.378054	0.373887 \$/bart	
Material Cost	0.110727	0.110727	0.110727 \$/part	
Total Cost		\$0.49	30.48 \$/part	
	Cost does not inc	lude Intellimoid	License fees or Equip	ment Depreciation
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	Mold Cooling estimate					
	Density (lb/ftß)**	91,104	91.104	91.104		
	Thermal Conductivity (BTU-in/fif ft2 F)	1,7	1.7	<i>√3</i> 7 1.7	BTU-in/hr ft2 F	
	Specific Heat (BTU/b) F or Callyg C)	0.38	ું: 0.3 <b>8</b> ,		BTU/lb F	
	Thermal Diffusivity (in 2/sec) 1.	64E-04:	1.64E-04	1.64E-04	in2/s	
	Part (hickness (in)	0.15	0.15	0.15	in.	
	HDT(F)	340	340	340	F	
	Barrel Temp. (F.)	550	550	550	F	
	Mold Temp. (F)	160	160	160	F	
ŀ	Cooling Time (seconds) 22.	200203	22.200203	22.200203		
	1978 AAS 177					_

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Tooling Cost Effect in	s Perguipher, to	oprig is a fixed	Costi	
Tooling \$	55,000	55,000	55,000 Tool Cost	
Interest Rate	8	8	8 %	
Tool Life (Depreciation Life)	7	7	7 years	
Annual Cost	\$9,781	\$9,781	\$9,781 \$/уг.	
Per Unit Cost	\$0.98	\$0.33	\$0.16 \$/Part	