

## ACRYLIC (PMMA) INJECTION MOLDING PROCESSING GUIDE INFORMATION

EQUIPMENT & CONDITIONS	SUGGESTIONS		
Compound Series	WG 8000		
Compound Drying	Dessicant type dryer 4 hours at 180°F (82°C) Hot air type dryer 4 hours at 170°F (77°C) Moisture to be below 0.02% Moisture should be checked with a moisture analyzer to confirm moisture level.		
Color Concentrate	Are not recommended as there will already be color in the compound.		
Machine Type	Traditional horizontal or vertical Injection Molding Machine		
Screw Design	General purpose screw, chrome plated, standard check ring 50% feed, 25% compression, 25% metering		
Compression Ratio	1.8-3.2:1		
L/D Ratio	20:1 minimum		
Gates	As large as possible		
Venting	.05mm to .07mm deep and 6mm wide		
Mold Cooling	Water or oil mold circulation fluid at 140-190°F (60-90°C)		
Shot Size	30-40%		
Clamping Force	3-4 tons per square inch Runners should be included in the tonnage calculation		
Linear Shrinkage	0.2-0.6% .004"007"in/in		
Injection Pressure	10-30,000 PSI		
Injection Rate	Slow to Medium		
Back Pressure	100-200 PSI		
Hold Time	Varies based on part design		



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Machine Temperatures	Melt Temp 205-230°C (use melt probe to determine actual melt temperature) Rear 175-195°C Center 195-205°C Front 205-230°C Nozzle 205-230°C			
Purging	Asaclean, Dyna-Purge and Ultimax or another purge designed for acrylic			
Regrind	Regrind percentage needs to be determined by the customer after testing for "fitness of use" Regrind must be treated like virgin compound and dried properly			
Additional Considerations	, , , , ,	nd must be dried properly to avo d that TA is contacted before set		
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