



Processing Conditions

Acrylic (PMMA) — RTP 1800 Series PermaStat Compounds

Typical Injection Molding Conditions

	English	SI Metric
Temperatures		
Rear zone	390 - 420 °F	199 - 216 °C
Center zone	410 - 440 °F	210 - 227 °C
Front zone	430 - 460 °F	221 - 238 °C
Melt	415 - 470 °F	213 - 243 °C
Mold	100 - 150 °F	38 - 66 °C

Pressures		
Injection	10000 - 15000 psi	69 - 103 MPa
Hold	5000 - 10000 psi	34 - 69 MPa
Back	50 - 100 psi	0.34 - 0.69 MPa

Speeds		
Fill	1 - 2 in/sec	25 - 51 mm/sec
Screw	60 - 90 rpm	60 - 90 rpm

Drying		
Time & Temperature	4 Hrs @ 200 °F	4 Hrs @ 93 °C
Dew Point	0.0 °F	-18 °C
Moisture Content	0.02 %	0.02 %

Notes

- This information is intended to be used only as a guideline for designers and processors of modified thermoplastics for injection molding. Because injection mold design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.
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