



Processing Conditions

Polybutylene Terephthalate (PBT) — RTP 1000 Series EMI Shielding Compounds

Typical Injection Molding Conditions

	English	SI Metric
Temperatures		
Rear zone	440 - 470 °F	227 - 243 °C
Center zone	430 - 460 °F	221 - 238 °C
Front zone	420 - 450 °F	216 - 232 °C
Melt	380 - 430 °F	193 - 221 °C
Mold	145 - 180 °F	63 - 82 °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	0.5 - 2 in/sec	13 - 51 mm/sec
Screw	30 - 60 rpm	30 - 60 rpm

Drying		
Time & Temperature	4 Hrs @ 250 °F	4 Hrs @ 121 °C
Dew Point	-20 °F	-29 °C
Moisture Content	0.03 %	0.03 %

Notes

- Remove hopper magnets
- Uses a reverse barrel profile
- Allow 4 to 5 shots to properly disperse the conductive fibers. The surface finish should have slight silver streaks (not clumps), indicating proper fiber dispersion.
- 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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