

## **Salee**Colour

## TROUBLESHOOTING GUIDELINES FOR POLYPROPYLENE

Problem	Possible Causes	Possible Solution
Pinholes	Not cured long enough Slow heating Heat sinks on mold	Increase internal air temperature IAT by increasing oven temperature – remove sinks
Narrow sections not filled	IAT too low	Increase oven temperature.
	Limited powder flow due to rotation ratio or poor design	Change ratio – use non integer Redesign mold.
Flashing (blow holes)	Contamination in parting line	Ensure good cleaning practices.
	Unevenly clamped mold	Check clamping mechanism.
	Poor venting	Clean vent, ensure size is OK. Use "Smart/Supa" vents
Odor, shiny yellowish internal surface	Over cooked	Reduce IAT and / or cycle time
Parts stick in mold	No taper on deep drawer sections	Modify mold Redesign the part
	Mold damage or poor finish	Inspect mold / repair
Part releases from mold wall	Mold release used	Do not use mold release Clean mold
Poor impact properties	Undercure – small voids are present in wall sections	Cook to a higher PIAT
	Overcure – internal surface is shiny	Cook to a lower PIAT
Wall thickness variation	Rotation not optimum	Alter rotation ratio – use non- integer ratio
	Variable heating of the mold walls	Check for thickness variation of the mold wall. Check for shielding effects (heat sinks)
Warpage	Uneven cooling due to large thickness variations	Alter rotation ratio. Review design. Ensure mold surface is free from mold release