

Topworks Plastic Mold Plastic Preform Molding Troubleshooting

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faults	causes	solutions
bottom whitening of PET preform	too low temperature of nozzle of hot runner too low temperature of plastic material	improve the insulation increase the nozzle temperature increase the material temperature increase the injection speed lower the packing pressure lower down the cooling water speed
Opaque pet preform body	poor material drying insufficient material plasticizion too thick wall and poor cooling foreign material mixed too low material temperature	ensure 4+ hrs drying increase material temperature increase the rotation speed of screw verify the drying temperature and shot volume, drying temperature 165 °C and moisture<0.02% improve the cooling and make the wall thinner
Pet preform from transparency to Opaque	too high ejection temperature	imrpove cooling prelong the cooling time change injection time
haze on the one side of the	too high hold pressure	lower the hold pressure
preform	eccentric gate	fix the PET preform mold
sliver streaking or yellowing of PET preform	plastic decomposition	lower drying temperature and prelong drying time change the injection speed lower the material temperature lower nozzle temperature
voids in Pet preform	insufficient drying	improve the drying increase the material temperature lower the rotation speed of the screw
uneven ring groove on the inner wall	vapor condensation in the core and cavity	improve the workshop drying increase the cooling water temperature drain the PET preform mold
	misalignment of hotrunner nozzle and gate	fix the PET preform mold

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breakage on the gate of the PET preform	undercut on the gate	fix the gate
	gate too hot	prelong the cooling time
		increase the injection speed or prelong the injection time
		improve the insulation of the gate
short fill or welt line on the neck of PET preform	poor venting	enlarge the venting groove
	eccentric gate position	clean the screw neck
		lower the injection speed
		fix the gate
	poor quality of PET preform mold	fix the PET preform mold
uneven wall thickness of PET	eccentric gate orifice	increase the material temperature
preform	too high injection pressure	lower down the pressure
	eccentric core	improve the accuracy and use adjustable core and cavity
	too high material temperature	lower the material temperature
	too short injection time	prelong the injection time
surface dent of the PET preform	too short hold time	increase the hold pressure
	too quick injection speed	lower the injection speed
	insufficient cooling	increase the cooling water pressure
	poor insulation	secure the gate insulation
	insufficient cooling	improve the cooling
nozzle drooling	too much pressure on the melt	clean the screw
	poor non-return on screw head	increase the hold pressure
	too low hold pressure	
PET preform bend after ejection	eccentric gate orifice	fix the PET preform mold;lower hold pressure
	uneven cooling	increase the injection speed; prelong the cooling time
		clean the cooling line; increase the cooling water pressure
PET preform bend after heating	eccentric core	fix the PET preform mold
	eccentric temperature adjust orifice	fix temperature adjust base
	uneven density of PET preform	lower the temperature, especially on the bend section.
PET preform local whitening	insufficient PET preform heating	increase the PET preform heating temperature and even the all body
	temperature	temperature

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PET preform whitening after temperature adjust	too high temperature	assure PET preform 80 °C and PP 110 °C
insufficient expanding of PET preform	insufficient air pressure	increase the air pressure and air
	insufficient heating temperature	increase the temperature of the PET preform
	injection fault of PET preform	verify the PET preform even soften by 100 °C water
crack of the preform bottom	too high preform bottom temperature	adjust the preform temperature
	too low preform temperature	check and change the preform and material, improve the drying
	severe decomposition	
	too early blowing	delay the blowing time
	too high air pressure	lower down the air pressure
	misalignment of blow pin the bottle bottom	check and fix the installment
	severe eccentricity	check the PET preform
PET preform eccentricity	too low speed of blow pin	adjust the air cylinder pressure
	distance between blow pin and bottle bottom	adjust the distance between blow pin and bottle bottom to be 1.5mm or
	over 1.5mm	smaller
	too high PET preform bottom temperature	lower the preform bottom heating temperature
	too high heating temperature	adjust the PET preform temperature
	local cold slug	increase the air pressure and air
preform body insufficient	insufficient air pressure and air volume	improve the blow mold venting; improve the blow mold cooling
extending on the vertical	poor venting of blow mold	fix the blow mold
direction	too high blow mold temperature;too thin wall	increase the vertical draw ratio
	bottle insufficient vertical draw ratio	
	PET preform eccentricity	fix the PET preform mold
bottle circumferential uneven	uneven heating temperature	improve the heating appratus
wall thickness	poor venting	lower the problem section temperature
		improve the venting
protrusion on the bottom	low temperature of PET preform bottom	blow earlier and adjust the heating temperature
	local insufficient heating temperature	increase the PET preform temperature
bottle local whitening after	too much local draw ratio	check the design of PET preform

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DIOWING	moisture in compressed air	improve the filtration of water and oil
bottle poor vertical loading	uneven wall thickness	make the wall thickness uniform
	too high PET preform heating	try low temperature and high pressure molding
	poor bottle profile	improve the design of bottle
bottle ease of broken after falling	unsufficient draw of bottom of preform	improve the draw raio of preform bottom
	decomposition after much heating	improve the material drying before pet preform injection molding
		lower the blowing temperature
Pitting and whitening on the	unclean air	install the air filter
bottle body	too much moisture	dehumidification of compressed air
too soft bottle body	poor design	improve the design
	too high blowing temperature	try low temperature and high pressure blowing
burning and odour smell after blowing	too high blowing temperature	lower the blowing temperature
	poor quality of compressed air	fix the air compressor and filter
	poor quality of material	use the good quality material
The water taste changed after	too much aldehyde content	low temperature of injection and blowing
filling	bad quality material	check the aldehyde content and expel bad material