



Document Process Data for Injection Moulding

Description PP (Unfilled Polypropylene)

Application Injection Moulding

Structure	Semicristalline		
General Properties	Hard, good resilien	Hard, good resilience. Low hygroscopicity and good thermal stability.	
Barrel Temperature	(decrease 15°C for Flame Retardant grades, V2)		
	Feed Zone	30 – 50 °C	
	Zone 1	160 – 200 °C	
	Zone 2	200 – 240 °C	
	Zone 3	220 – 240 °C	
	Zone 4	220 – 240 °C	
	Zone 5	220 – 240 °C	
	Nozzle	220 – 240 °C	
Melt temperature	220 – 240 °C		
Mould temperature	20 –40 °C		
Injection pressure	800 – 1400 bar		
Post-pressure	Between 30 and 60% of injection pressure, high post-pressure time		
Counterpressure	50 – 200 bar		
Injection speed	Medium		
Screw speed	Equal to peripheric speed of 1.3 m/s		
Metering	0.5 – 4.0 diameters		
Cushion	2-8 mm, depends on metering and screw diameter		
Drying	Not necessary. 1 hour at 70°C if stored in humid place or for aesthetical requirements.		
Recycle	100% of regrinded material. This percentage decreases for technical and aesthetic parts. Not recommended for Flame Retardant grade.		
Shrinkage	1.0 – 2.0 %, complete after 40 hours.		
Barrel equipment	Standard screw, non-return valve, free-flow nozzle		
Quenching	Not necessary to purge with other materials. Purge with natural product suggested after Flame Retardant processing.		



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