





Document

Process Data for Injection

Moulding

Description

POM (Polyacetal)

Application

Injection Moulding

Structure	Semicristalline		
Structure	Hard, stiff, high thermal stability, antifriction and abrasion resistant. High gloss.		
General Properties			
Barrel Temperature			
	Feed Zone	30 – 70 °C	
	Zone 1	160 – 190 °C	
	Zone 2	170 – 190 °C	
	Zone 3	180 – 200 °C	
	Zone 4	180 – 210 °C	
	Zone 5	180 – 210 °C	
	Nozzle	180 – 200 °C	
Melt temperature	180 – 200 °C		
Mould temperature	70 −100 °C		
Injection pressure	800 – 1200 bar		
Post-pressure	Between 30 and 60% of injection pressure, high post-pressure time		
Counterpressure	50 – 100 bar		
Injection speed	Medium		
Screw speed	Equal to peripheric speed of 1.0 m/s		
Metering	0.5 – 4.0 diameters		
Cushion	2 – 8 mm, depends on metering and screw diameter		
Drying	3 - 4 hours at 80°C	3 - 4 hours at 80°C	
Recycle		Maximum 20% of regrinded material. This percentage decreases for technical and aesthetic parts.	
Shrinkage	1.7 – 2.2% (for unfi	1.7 – 2.2% (for unfilled product)	
Barrel equipment	Standard screw, no	Standard screw, non-return valve, free-flow nozzle	
Quenching		Purge with PP or PEHD. Do no leave POM inside the barrel when the moulding machine is turned off.	

Attention: off-gas products produced during processing can be irritants to the mucous membranes, therefore adequate ventilation and aspiration is recommended.



