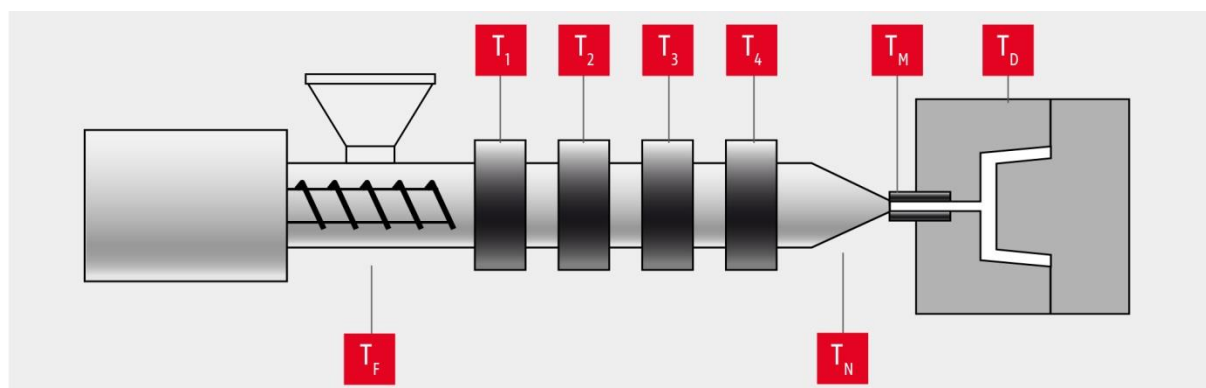


TOPAS® 8007S-04

Cyclic Olefin Copolymer

Processing Conditions for Injection Molding



Processing Temperatures

T_F	T_1	T_2	T_3	T_4	T_N	T_M	T_D
< 60 °C	190-220 °C	200-230 °C	210-240 °C	220-250 °C	220-250 °C	190-250 °C	40-70 °C
< 140 °F	374-428 °F	392-446 °F	410-464 °F	428-482 °F	428-482 °F	374-482 °F	104-158 °F

Max. Residence Time	< 15 min; short interruption to cycle: reduce $T_x = 170$ °C 338 °F !
Injection Pressure	$P_{Sp} = 500 - 1100$ bar 7- 16 kpsi (specific)
Hold on Pressure	$P_N = 300 - 600$ bar 4- 9 kpsi (specific)
Back Pressure	$P_{St} = 150$ bar 2200 psi max. (specific)
Screw Speed	$n_s = 50 - 200$ rpm
Injection Speed	moderate to fast (50 mm/sec - 150 mm/sec)
Nozzle Type	free – flow

Note

Shrinkage is dependent on processing conditions and part design. Typical shrinkage values are 0,1 - 0,5%

TOPAS Advanced Polymers recommends only external heated hot runner systems.

For molded parts with especially high requirements to the surface quality we recommend to choose the highest possible mold temperature.

