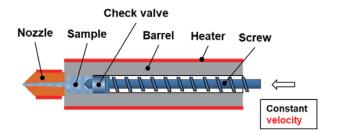
Measure resin viscosity via molding machines A new item for quality control

Resin viscosity automatic control program *meltcon* ®

Concept

- Control and adjust the resin melting condition from the viewpoint of resin viscosity which
 fluctuates due to environmental changes such as resin production lot, drying condition,
 content re-grind resin, and replacement the plasticizing parts of molding machines.
- Contribute to the improvement of the yield rate by managing the condition.
- Resin viscosity can be measured under the condition closer to actual molding.



$$\eta = \frac{R^4 P}{32LD^2 V}$$

- R: Nozzle land diameter [mm]
- L: Nozzle land length [mm]
- P: Injection pressure [MPa]
- D: Screw diameter [mm]
- V: Injection speed [mm/s]

Features

- If setting the resin viscosity for the acceptable quality standard in advance, the cylinder temperature is automatically adjusted to the value.
- The operator does not need to change the conditions each time the resin lot is changed.
- No need to replace any parts, just add the program.

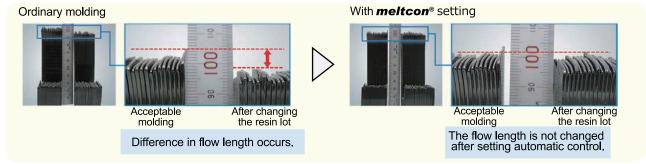
Measurement result



meltcon ® Operation screen

Advantage

 Under the same condition as when molding a good quality product, change the resin to a different production lot and restart molding. Compare the flow length before and after the lot change.



[Molding: Bar-flow, Resin: PC]

