

Crastin® SK609 BK851

THERMOPLASTIC POLYESTER RESIN

Crastin® SK609 BK851 is a 50% glass fiber reinforced, lubricated polybutylene terephthalate resin for injection molding.

General Information

Density ISO 1183 1710 kg/m³

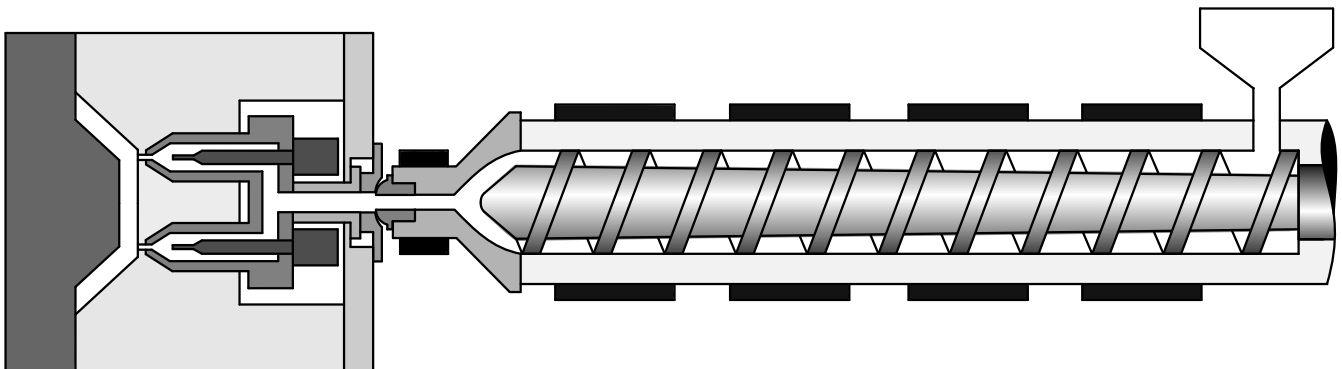
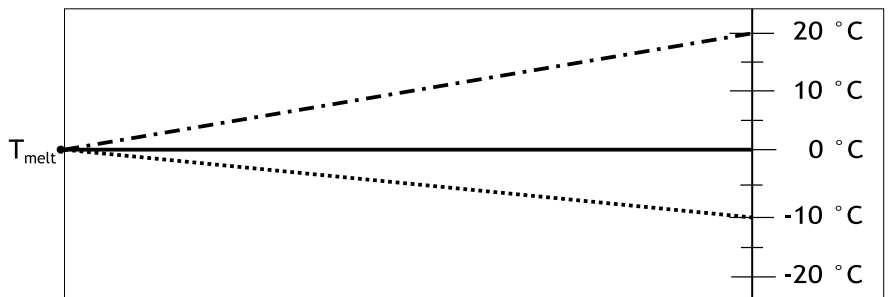
Drying

Drying Recommended yes
 Drying Temperature 120 °C
 Drying Time* 2 - 4 h
 Processing Moisture Content ≤0.04 %

Temperature settings

Melt Temperature Optimum 260 °C
 Min. melt temperature*** 250 °C
 Max. melt temperature 270 °C
 Mold Temperature Optimum 80 °C
 Min. mold temperature 30 °C
 Max. mold temperature 130 °C

3 D (< 3 min) - - - - -
 2 D (3-5 min) = = = = =
 1 D (> 5 min)



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Recommended general settings

Hold pressure range	≥60 MPa
Back pressure	As low as possible

Special precautions

During molding, use proper protective equipment and adequate ventilation. Avoid fumes and limit the residence time and temperature of the resin in the machine.

$$\text{Residence time} = \frac{8 \cdot \text{screw } \varnothing \text{ [mm]} \cdot \text{cycle time [s]}}{60 \cdot \text{dosing stroke [mm]}}$$

Hot runner residence time not included in calculation

Links for further information

[Trouble Shooting Guide](#)

For further information e.g. on Shrinkage, Hot runner systems, Venting, Gating, Drying and moisture measurement, Re grind, Purging, please refer to the detailed [Molding Guide](#).

Footnotes:

- * Improper storage may lead to longer drying times
- *** Using melt temperature lower than recommended could create unmelt, leading to weak parts

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