

Crastin® SK641FR NC010

THERMOPLASTIC POLYESTER RESIN

Crastin® SK641FR is a flame retardant, 10% glass reinforced polybutylene terephtalate moulding resin. It is recognized as UL94 V-0 at 1.5mm.

General Information

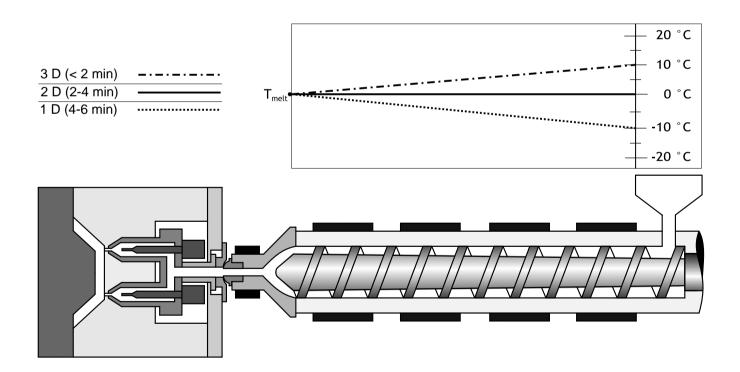
Resin Identification ISO 1043	PBT-GF10FR(17)	Melt Ten
Density ISO 1183	1540 kg/m³	Min. melt
B .		Max. mel

Drying

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

Temperature settings

Melt Temperature Optimum	250 °C
Min. melt temperature***	240 °C
Max. melt temperature	260 °C
Mold Temperature Optimum	80 °C
Min. mould temperature	30 °C
Max. mould temperature	130 °C



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Recommended general settings

Residence time - optimum range 2 - 4 minResidence time - maximum 6 minHold pressure range ≥60 MPaHold Pressure Time $h^2+2 \text{ s}$ (h is the max. wall thickness of the part in mm)

Back pressure As low as possible

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

Hot runner residence time not included in calculation

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.

Links for further information

Trouble Shooting Guide

For further information e.g. on Shrinkage, Hot runner systems, Venting, Gating, Drying and moisture measurement, Regrind, 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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