INJECTION DATASHEET



Zytel® HTNFR52G30NH NC010

HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTNFR52G30NH NC010 is a 30% glass reinforced, flame retardant high performance polyamide resin. It is also a PPA resin and it uses a non-halogenated flame retardant.

General Information

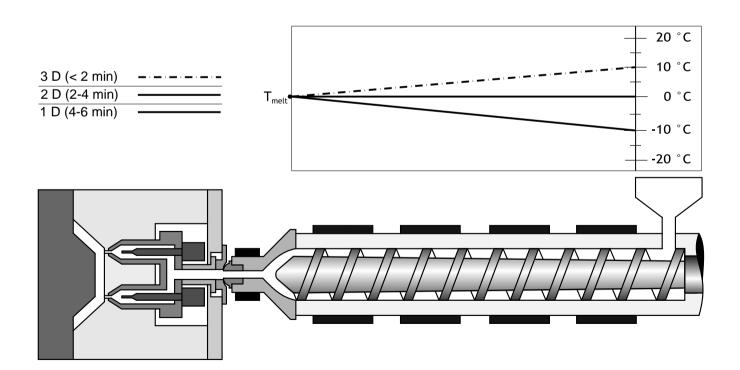
Resin Identification ISO 1043 PA6T/66-GF30FR(40) Density ISO 1183 1440/- kg/m³

Drying

Drying Recommended	yes
Drying Temperature**	100 °C
Drying Time*	6 - 8 h
Type of Dryer	Dehumidified dryer
Recommended Dew Point	-40 °C
Processing Moisture Content - Optimum'	·* 0.05 %
Processing Moisture Content	≤0.1 %

Temperature settings

Min. melt temperature***	320 °C
Max. melt temperature	325 °C
Min. mould temperature	90 °C
Max. mould temperature	130 °C



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Recommended Temperature profile settings

Hopper ≥80 °C Barrel settings Dependent on stroke (residence time)

Nozzle T_{melt}-10 °C

Hot Runner T_{melt}

Recommended general settings

Residence time - optimum range 2 - 4 minResidence time - maximum 6 minHold Pressure Time $h^2 + 2 \text{ s}$ (h is the max. wall thickness of the part in mm) Stroke vs screw diameter (D) 1 - 2D

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

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
- ** Excessive drying may lead to viscosity increase during processing. A discoloration of natural colored materials is possible.
- *** Using melt temperature lower than recommended could create unmelt, leading to weak parts