INJECTION DATASHEET



Zytel® HTN52G35EF BK420

HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTN52G35EF BK420 is a 35% glass reinforced, heat stabilised, lubricated high performance polyamide resin that can be moulded in water heated molds, developed for electrical and electronics applications. It is also a PPA resin.

General Information

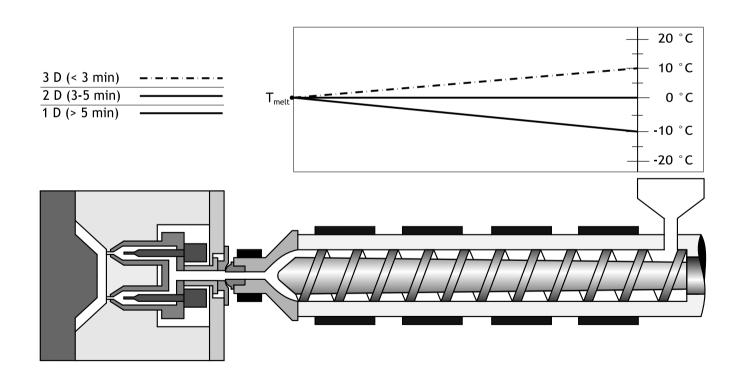
Resin Identification ISO 1043 PA6T/66-GF35 Density ISO 1183 1450/- kg/m³

Drying

Drying Recommended	yes
Drying Temperature**	100 °C
Drying Time*	6 - 8 h
Processing Moisture Content - Optimum**	0.05 %
Processing Moisture Content	≤0.1 %

Temperature settings

Melt Temperature Optimum Internal	325 °C
Min. melt temperature***	320 °C
Max. melt temperature	330 °C
Min. mould temperature	90 °C
Max. mould temperature	110 °C



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Recommended general settings

 $\begin{array}{lll} \mbox{Residence time - optimum range} & 3 - 5 \mbox{ min} \\ \mbox{Residence time - maximum} & 10 \mbox{ min} \\ \mbox{Hold Pressure Time} & h^2 + 2 \mbox{ s} \end{array}$

(h is the max. wall thickness of the part in mm)

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
- ** 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