

Zytel® HTNFR52G45BL BK337

HIGH PERFORMANCE POLYAMIDE RESIN

Zytel® HTNFR52G45BL BK337 is a 45% glass reinforced, flame retardant, lubricated high performance polyamide resin that has been developed for connector applications.

General Information

Resin Identification ISO 1043 PA6T/66-GF45FR(16+72)
 Density ISO 1183 1760/- kg/m³

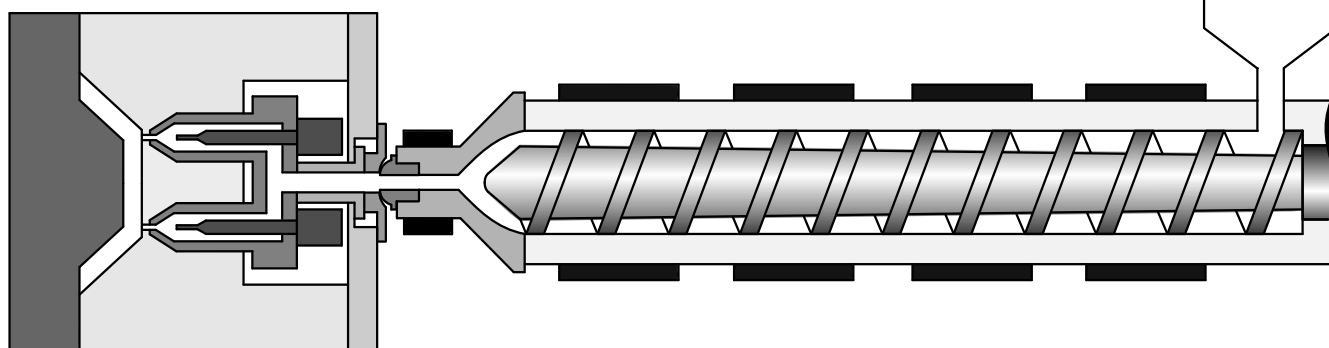
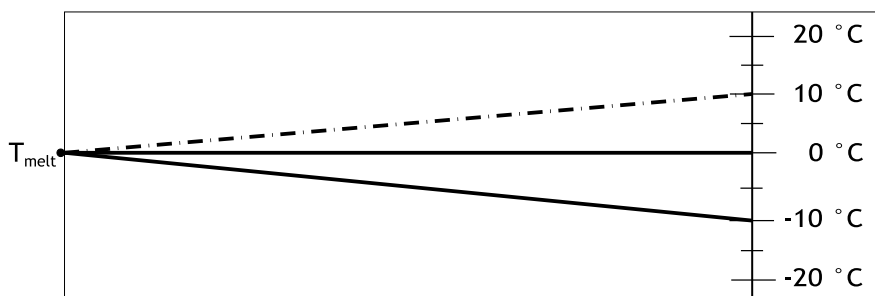
Drying

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

3 D (< 2 min) - - - - -
 2 D (2-4 min) = = = = =
 1 D (4-6 min) = = = = =



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Recommended general settings

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

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

Hot runner residence time not included in calculation

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