INJECTION DATASHEET



Zytel® BM7300THS BK317

NYLON RESIN

Zytel® BM7300THS is an unreinforced, heat stabilized, lubricated, toughened polyamide 6 for blow molding.

General Information

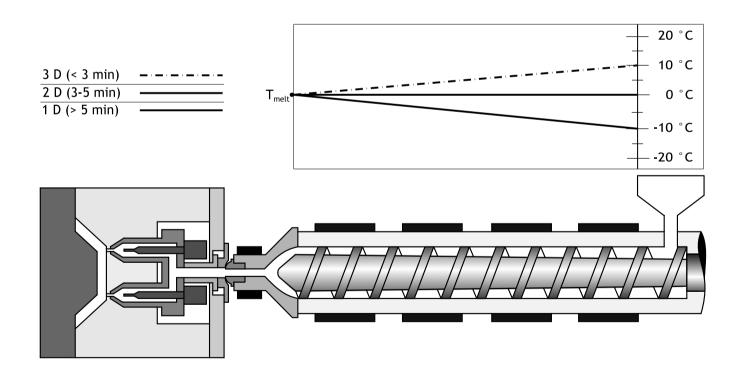
Resin Identification ISO 1043	PA6-HI
Density ISO 1183	1090/- kg/m ³

Drying

Drying Recommended	yes
Drying Temperature**	80 °C
Drying Time*	2 - 4 h
Processing Moisture Content - Optimum**	0.1 %
Processing Moisture Content	≤0.2 %

Temperature settings

Melt Temperature Optimum Internal	270 °C
Min. melt temperature***	260 °C
Max. melt temperature	280 °C
Mold Temperature Optimum	70 °C
Min. mould temperature	50 °C
Max. mould temperature	100 °C



INJECTION DATASHEET



Zytel® BM7300THS BK317

NYLON RESIN

Recommended general settings

Residence time - optimum range 3 - 5 minResidence time - maximum 10 minHold pressure range 50 - 100 MPaHold Pressure Time $1.5h^2 + 2 \text{ s}$ (h is the max. wall thickness of the part in mm)
Max. screw tangential speed $\leq 0.2 \text{ m/s}$

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