#### INJECTION DATASHEET



## Zytel® 73G50HSLA BK416

#### **NYLON RESIN**

Zytel® 73G50HSLA BK416 is a 50% glass fiber reinforced, heat stabilised, lubricated, polyamide 6 resin for injection moulding. It has an excellent surface appearance and gloss.

#### **General Information**

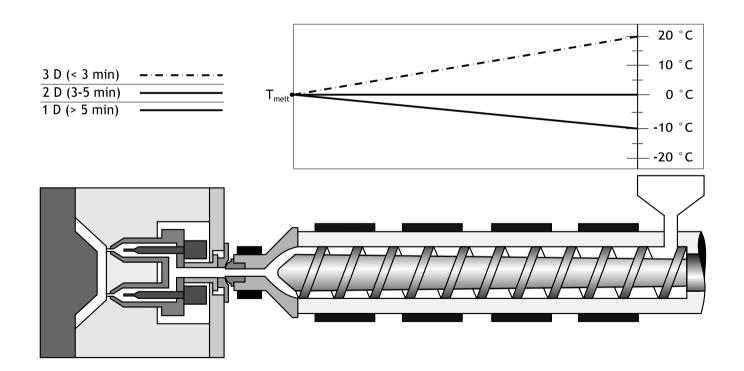
### Resin Identification ISO 1043 PA6-GF50 Density ISO 1183 1580/- kg/m³

#### 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	100 °C
Min. mould temperature	70 °C
Max. mould temperature	120 °C



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#### Recommended general settings

Residence time - optimum range 3 - 5 minResidence time - maximum 10 minHold pressure range 50 - 100 MPaHold Pressure Time  $h^2 + 2 \text{ s}$ (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