### INJECTION DATASHEET



# ZYTEL® FR73G30V0NH1 ECO-R 311 N904LM NYLON RESIN

Zytel® FR73G30V0NH1 ECO-R 311 N904LM incorporates 30% of post-industrial recycled content by weight in the finished product. The product is designed for applications requiring self-extinguishing properties combined with good mechanical performances.

#### **General Information**

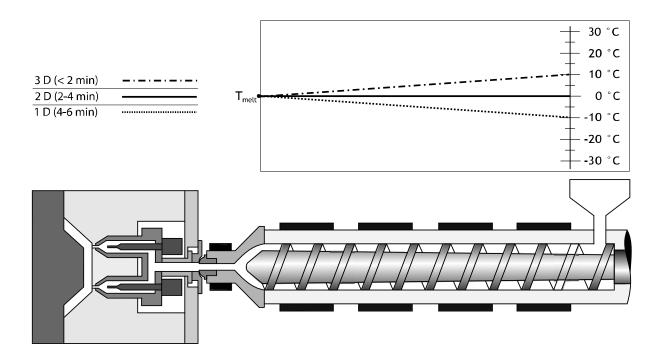
## Resin Identification ISO 1043 (PA6)-GF30 FR(40) REC(30) Density ISO 1183 $1430/\text{-} \text{ kg/m}^3$

### Drying

Drying Recommended	yes
Drying Temperature**	80 °C
Drying Time*	2 - 4 h
Processing Moisture Content - Optimum**	0.08 %
Processing Moisture Content	≤0.1 %

#### Temperature settings

Melt Temperature Optimum	250 °C
Min. melt temperature***	240 °C
Max. melt temperature	260 °C
Mold Temperature Optimum	80 °C
Min. mould temperature	60 °C
Max. mould temperature	90 °C



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#### Recommended general settings

Residence time - optimum range 2 - 4 minResidence time - maximum 5 minMax. screw tangential speed  $\leq 0.2 \text{ m/s}$ 

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

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