INJECTION DATASHEET



ZYTEL[®] 73G50HSL ECO-R 311 BLK1 (PRELIMINARY) NYLON RESIN

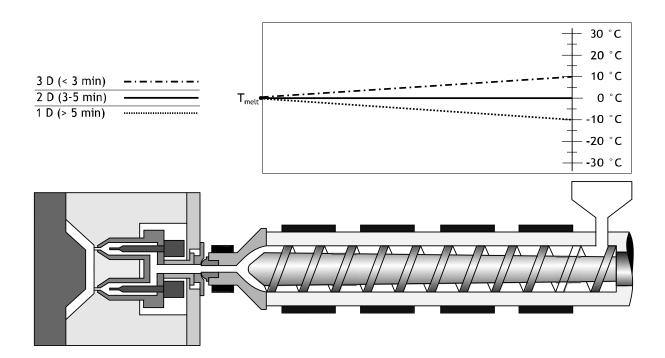
Zytel® 73G50HSL ECO-R 311 BLK1 incorporates 30% of post-industrial recycled content by weight in the finished product. It is a 50% Glass Reinforced, Heat Stabilized, Polyamide 6 designed for Automotive parts requiring high thermal resistance, Household appliances and Electrical devices.

General Information

| Resin Identification ISO 1043 Density ISO 1183 | PA6-GF50(R30) 1590/- kg/m ³ |
|---|---|
| Drying | |
| Drying Recommended | yes |
| Drying Temperature** Drying Time* | 80 °C 2 - 4 h |
| Processing Moisture Content - Optimum** | 0.1 % |
| Processing Moisture Content | ≤0.15 % |

Temperature settings

| Melt Temperature Optimum | 250 °C |
|--------------------------|--------|
| Min. melt temperature*** | 235 °C |
| Max. melt temperature | 280 °C |
| Mold Temperature Optimum | 80 °C |
| Min. mould temperature | 60 °C |
| Max. mould temperature | 120 °C |
| | |



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Recommended general settings

Residence time - optimum range3 - 7 minResidence time - maximum10 minMax. screw tangential speed≤0.2 m/s

Residence time= $\frac{8^{*}screw \oslash [mm]^{*}cycle time [s]}{60^{*}dosing stroke [mm]}$

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 <u>Molding Guide</u>.

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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The above data are preliminary and are subject to change as additional data are developed on subsequent lots.

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colourants or other additives may cause significant variations in data values. Properties of moulded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those product expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication is accurate; however, we do not respective of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to he lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique o

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