

# ZYTEL® T70 ECO-R 311 BLK1

## NYLON RESIN

Zytel® T70 ECO-R 311 BLK1 incorporates 30% of post-industrial recycled content by weight in the finished product. It is a general purpose PA66 grade with improved flexibility.

### General Information

Resin Identification ISO 1043  
 Density ISO 1183

PA66-I(R30)  
 1120/- kg/m<sup>3</sup>

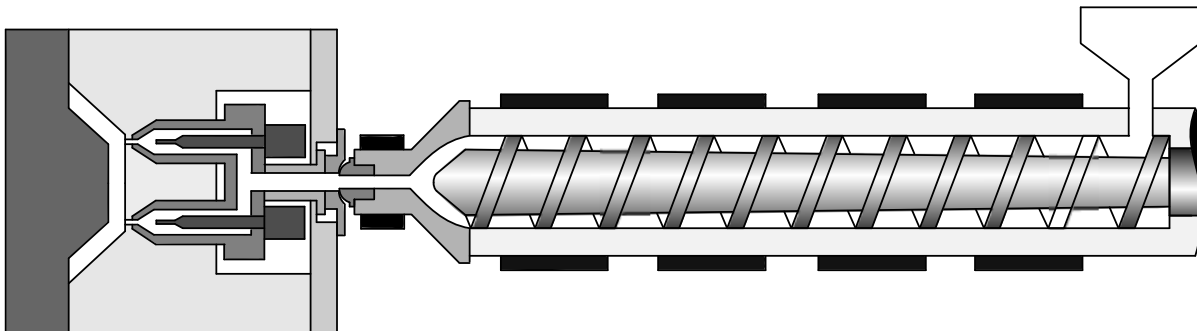
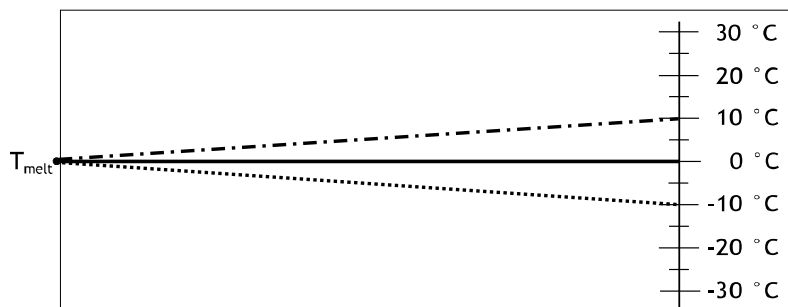
### Drying

Drying Recommended yes  
 Drying Temperature\*\* 80 °C  
 Drying Time\* 2 - 4 h  
 Processing Moisture Content - Optimum\*\* 0.1 %  
 Processing Moisture Content ≤0.15 %

### Temperature settings

Melt Temperature Optimum 290 °C  
 Min. melt temperature\*\*\* 280 °C  
 Max. melt temperature 300 °C  
 Mold Temperature Optimum 80 °C  
 Min. mould temperature 50 °C  
 Max. mould temperature 100 °C

3 D (< 3 min) - - - - -  
 2 D (3-5 min) = = = = =  
 1 D (> 5 min) . . . . .



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### Recommended general settings

Residence time - optimum range	3 - 5 min
Residence time - maximum	10 min
Max. screw tangential speed	≤0.3 m/s

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

*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

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