

Processing advice

Biograde[®] C 7500 **Product name:**

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1. Designation of product, preparation and manufacturer

Biograde[®] C 7500 1.1 Trade name:

1.2 Use of product: Biodegradable compound for injection moulding made partially from renewable

resources.

1.3 Manufacturer: FKuR Kunststoff GmbH

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2. Processing conditions for injection moulding

Standard screw, open nozzle (needle valve for hot runner) 2.1 Machine equipment:

2.2 Machine settings: Feeding Zone 60 [°C]

Zone 1 160 [°C] Zone 2 190 [°C] Zone 3 210 [°C] Machine nozzle 220 [°C] Mould temperature 30 - 75 [°C]

Holding pressure level 50 - 80 [%] <10 Melt cushion (of volume) [%] Cooling time 5 [s] max. Dwell time 300 [s]

Density 1.31 [g/cm³] 760 [kg/m³] Bulk density MFR (230 °C/5 kg) 17 - 21 [g/10 min] Shrinkage n.A. [%]

Use high injection speed! Short holding pressure and cooling times can be used. To 2.3. General advice:

> avoid burning (diesel effect) at high injection speeds venting at the flow path is recommended. The flow front should continuously move forward to avoid freezing

effects.

Regrind sprues and runners can be reused at 20 %. We recommend to use cold runner systems.

3. Purging advice

3.1 Before production: Purge the plastification unit and, if existing, the hot runner with PP or purging

compound.

Heat tools and plastificator unit to the recommended temperature. If tool is not filled, 3.2 During production:

increase temperature stepwise. Material has a tendency to burn and therefore needs a

constant melt flow.

Purge the plastification unit and, if existing, the hot runner with PP or purging 3.3 After production:

compound.



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3. Purging advice

3.4 Important information: The dwell time of the material inside the machine shall be reduced to a minimum in

order to lower the risk of pyrolysis.

4. Drying conditions and storage

4.1 General: Biograde[®] C 7500 is a biodegradable plastic based on cellulose. Residual moisture

content of more than 0.2 % can result in hydrolysis and evaporation in the injection unit

or in condensed moisture on the mould.

4.2 Drying: Drying is recommended at 60 °C for a period of 2 - 4 hours. Do not overheat the

material and do not dry it longer than recommended.

4.3 Storage conditions: It is essential to store the material in a dry and cool place. Opened octabins should be

used immediately or adequately resealed to avoid moisture uptake.

4.4 Storage conditions for

finished products:

Finished products made from Biograde® should be stored dry and cold. Storage time depends on processing parameters and on cilmate conditions in the respective area. FKuR Kunststoff GmbH cannot give any shelf life guarantees for finished goods. Please notice that the conditions mentioned above depend on experiences of our customers. We recommend that each customer executes individual storage tests

according to his product specifications and storage requirements.

5. Legal notice

5.1 General: Neither FKuR Kunststoff GmbH nor its marketing affiliates shall be responsible for the

use of this information or of any product, method or equipment mentioned. Customers must undertake their own determination of this product's suitability and completeness for their own use, for the protection of the environment, for the health and safety of their

employees and purchasers of their products. No warranty is made of the

merchantability or fitness of any product, and nothing herein waives any of the seller's

conditions of sale.