

Processing advice

Product name: Bio-Flex® F 5710

Date of issue: 19 November 2013

Version: 1.0

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1. Designation of product, preparation and manufacturer

1.1 Trade name: Bio-Flex® F 5710

1.2 Use of product: Biodegradable compound for profile extrusion

1.3 Manufacturer: FKUR Kunststoff GmbH
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2. Processing conditions for profile extrusion

2.1 Machine equipment: Standard Polyolefin line

2.2 Machine settings:

Zone 1	160	[°C]
Zone 2	170	[°C]
Zone 3	175	[°C]
Zone 4	180	[°C]
Adaptor	185	[°C]
Die	190	[°C]

3. Processing conditions for injection moulding

3.1 Machine equipment: Standard screw

3.2 Machine settings:

Zone 1	150	[°C]
Zone 2	160	[°C]
Zone 3	175	[°C]
Machine nozzle	190	[°C]
Mould temperature	25-40	[°C]
Holding pressure level	40 - 60	[%]
Melt cushion (of volume)	< 10	[%]
Cooling time	15	[s]
max. Dwell time	300	[s]
Density	1,29	[g/cm³]
Bulk density	n/a	[kg/m³]
MFR (190 °C/2.16 kg)	2.5 - 4.5	[g/10 min]
Shrinkage	n/a	[%]

3.3. General advice: We recommend cold runner systems.

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4. Purging advice

- 4.1 Before production: Purge the plastification unit and, if existing, the hot runner with PP or purging compound.
- 4.2 During production: Heat tools and plastificator unit up to the recommended temperature. If tool is not filled, increase temperature stepwise.
- 4.3 After production: Purge the plastification unit and, if existing, the hot runner with PP or purging compound.
- 4.4 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.

5. Drying conditions and storage

- 5.1 General: Bio-Flex® F 5710 is a biodegradable compound for profile extrusion and injection moulding. Residual moisture content of more than 0.2 % can result in evaporation during the process or in condensed moisture on the mould.
- 5.2 Drying: Drying is recommended at 60 °C for a period of 2 - 4 hours.
- 5.3 Storage conditions: If not specified otherwise product life is six months after shipment from Sellers warehouse if product is in its original packaging and stored under dry conditions (max. 70 % relative humidity) and normal room temperature or, if necessary, using air conditioning. It is important to observe that a major drop in external air temperature (e.g. during transportation) can result in the development of water condensate. Prior to the processing of the material, it should be ensured that there is no condensate on the packaged product. Opened octabins should be used immediately or adequately resealed to avoid moisture uptake.
- 5.4 Storage conditions for finished products: Finished products made from Bio-Flex® should be stored dry and cold. Storage time depends on processing parameters and on climate 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.

6. Legal notice

- 6.1 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.