



Product name: Date of issue: 26.10.2010

Bio-Flex[®] S 5630

(prev. Bio-Flex® V 1644)

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1. Designation of product, preparation and manufacturer

Bio-Flex[®] S 5630 1.1 Trade name:

1.2 Use of product: Biodegradable compound for thermoforming and injection moulding

1.3 Manufacturer:

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2. Processing conditions for cast film extrusion

2.1 Machine equipment	Standard Polyolefin castfilm line		
2.2 Machine settings:	Zone 1 Zone 2 Zone 3 Zone 4 Adaptor Die Calender Roll 2	150 170 180 185 170 180 0 - 50	[°C] [°C] [°C] [°C] [°C] [°C]

3. Processing conditions for injection moulding

Standard screw with non-return flow valve, open nozzle

3.2 Machine settings:

Zone 1	130	[°C]
Zone 2	150	[°C]
Zone 3	170	[°C]
Machine nozzle	180	[°C]
Mould temperature	30 - 65	[°C]
Holding pressure level	40 - 60	[%]
Melt cushion (of volume)	< 10	[%]
Cooling time	15	[s]
max. Dwell time	300	[S]
Density	1.55	[g/cm³]
Bulk density	895	[kg/m³]
MFR (190 °C/2.16 kg)	10 - 12	[g/10 min]
Shrinkage	0.4 - 0.5	[%]

3.3. General advice:

Process parameters are comparable to PP. 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® S 5630 is a biodegradable compound for thermoforming and injection moulding. Residual moisture content of more than 0.2 % can result in evaporation during the injection 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:	The material shall be stored in a dry and cool place. 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 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.		

6. Legal notice

6.1 General:

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