## Processing advice



Product name:	Bio-Flex <sup>®</sup> F 1137 Bio-Flex <sup>®</sup> Bin Liner		
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1. Designation of product, preparation and manufacturer			
1.1 Trade name:	Bio-Flex <sup>®</sup> F 1137 / Bio-Flex <sup>®</sup> Bin Liner previously Bio-Flex <sup>®</sup> V 2877		
1.2 Description:	Biodegradable and compostable compound for film extrusion, certified according to EN 13432. Used in applications such as waste bags.		
1.3 Manufacturer:	FKuR Kunststoff GmbH Siemensring 79 D - 47 877 Willich Phone: + 49 (0) 2154 / 92 51-0 Fax: + 49 (0) 2154 / 92 51-51 Mail: info@fkur.com Web: www.fkur.com		
2. Processing conditions for blown film extrusion			
2.1 Machine equipment:	Standard low-density polyethylene screw		
2.2 Machine settings:	Zone 1 160 [°C   Zone 2 160 [°C   Zone 3 165 [°C   Zone 4 170 [°C   Adapter 170 [°C   Lower die 175 [°C   Upper die 175 [°C   Water jacket (feed) 35 [°C   Mass temperature max. 190 [°C	) ) ) ) ) ) )	
	Density   1,47   [g/cm     MFR (190 °C/2.16 kg)   2.0 - 4.5   [g/10 min		
	Die gap0.8 - 1.4[mnDie diameterup to 400[mnBlow film ratio2.5 - 4[	-	
2.3 General advice:	Start at temperatures given above. If gel particles or die lines appear, increase temperature in 5 °C steps up to a maximum of 190 °C melt temperature.		
3. Purging advice			
3.1 Before production:	Ensure that all temperature zones work correctly! Purge the extruder with low melting LDPE, MFR approx. 4 - 6 g/10min using the above temperature settings. Purging time: approximately 10 - 20 minutes. We recommend to change the screen before production.		
3.2 During production:	Monitor melt temperature continually! Use sufficient cooling for extruder and bubble, a dual lip air ring and/or inner bubble cooling system is preferred with chilled air, as the melt is soft when emerging from the die.		
3.3 After production:	Purge out the extruder with an LDPE, MFR 0.4 - 2.0 g/10min. Do not allow material to remain hot inside the machine for extended periods as the material will degrade.		

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-	plastics - made by nature!®		
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4. Drying conditions and storage			
4.1 General:	Bio-Flex <sup>®</sup> F 1137 is a biodegradable plastic based on F biopolymers. Moisture content can start hydrolysis. Re content of more than 0.2 % can result in fish eyes and/ processing of blown film.	sidual moisture	
4.2 Drying:	We recommend drying Bio-Flex <sup>®</sup> F 1137 at 60 °C for a period of 2 - 4 hours.		
4.3 Storage conditions:	If not specified otherwise product life is 6 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 obsere that a major drip in external air temperature (e.g. during transportation) can result in a development of water condensate. Prior to processing of the material, it should be ensured that there is no condensate on the packaged product.		
4.4 Storage conditions for films and finished products:	Films on rolls and finished products made from Bio-Fle dry and cold. It is recommended to wrap goods in blac protect them against moisture and UV radiation. In any recommend to use films on rolls and products as soon to store them for a time period of more than six months Storage time depends on processing parameters and in the respective area. Because of these essential and parameters, FKuR Kunststoff GmbH cannot give any s for finished goods. Please notice that the conditions m depend on experiences of our customers. Each custor individual storage tests according to product specificat requirements.	k PE inliners to / case we as possible and not s. of climate conditions I complex intreacting shelf life guarantees entioned above mer should execute	
5. Legal notice			
5.1 General:	Neither FKuR Kunststoff GmbH nor its marketing affilia responsible for the use of this information or of any pro- quipment mentioned. Customers must undertake their of this product's suitability and completeness for their of protection of the environment, for the health and safety and purchasers of their products. No warranty is made merchantability or fitness of any product, and nothing health the seller's condidons of sale.	oduct, method or own determination own use, for the y of their employees e of the	
5.2 Brands:	The brands "FKuR – Plastics made by Nature" and "Bl registered trademarks of FKuR Kunststoff GmbH, account international 'Nice-Classifications' (NCL9), no. 01, 02 a	ording to the	