

Bio-Flex® F 1137

Polylactic Acid

FKuR Kunststoff GmbH

Message:

Biodegradable and compostable compound for film extrusion, certified according to EN 13432. Used in applications such as waste bags.

Bio-Flex® F 1137 / Bio-Flex® Bin Liner

(previously Bio-Flex® V 2877)

General Information			
Features	Biodegradable		
	Compostable		
Uses	Bags		
	Film		
Agency Ratings	EN 13432		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0 to 4.5	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	1.50 to 3.50	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	310	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	15.5	MPa	
Break	13.8	MPa	
Tensile Strain (Break)	430	%	ISO 527-2
Flexural Modulus	305	MPa	ISO 178
Flexural Stress (3.5% Strain)	11.5	MPa	ISO 178
Flexural Strain at Break	No Break		ISO 178
Tensile Strain at Tensile Strength	420	%	ISO 527
Tear Propagation Resistance			ISO 6383-2
Elmendorf - MD : 20.0 µm	100	kN/m	
Elmendorf - TD : 20.0 µm	290	kN/m	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Tensile Modulus			ISO 527-3
MD : 20 µm	515	MPa	
TD : 20 µm	420	MPa	

Tensile Stress			ISO 527-3
MD : Yield, 20 μm	37.0	MPa	
TD : Yield, 20 μm	25.0	MPa	
MD : Break, 20 μm	36.0	MPa	
TD : Break, 20 μm	24.0	MPa	
Tensile Elongation			ISO 527-3
MD : Yield, 20 μm	290	%	
TD : Yield, 20 μm	460	%	
MD : Break, 20 μm	290	%	
TD : Break, 20 μm	460	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	> 155	°C	ISO 3146

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