

Bio-Flex® F 1138

Polylactic Acid

FKuR Kunststoff GmbH

Message:

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

Bio-Flex® F 1138 / Bio-Flex® Shopper

(previously Bio-Flex® V 2878)

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	405	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	16.0	MPa	
Break	14.0	MPa	
Tensile Strain (Break)	370	%	ISO 527-2
Flexural Modulus	390	MPa	ISO 178
Flexural Stress (3.5% Strain)	10.0	MPa	ISO 178
Flexural Strain at Break	No Break		ISO 178
Tensile Strain at Tensile Strength	360	%	ISO 527
Tear Propagation Resistance			ISO 6383-2
Elmendorf - MD : 20.0 µm	140	kN/m	
Elmendorf - TD : 20.0 µm	300	kN/m	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
Tensile Modulus			ISO 527-3
MD : 20 µm	530	MPa	
TD : 20 µm	465	MPa	

Tensile Stress			ISO 527-3
MD : Yield, 20 μm	30.0	MPa	
TD : Yield, 20 μm	22.0	MPa	
MD : Break, 20 μm	29.0	MPa	
TD : Break, 20 μm	21.0	MPa	
Tensile Elongation			ISO 527-3
MD : Yield, 20 μm	280	%	
TD : Yield, 20 μm	400	%	
MD : Break, 20 μm	280	%	
TD : Break, 20 μm	400	%	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	> 155	°C	ISO 3146

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