

Bio-Flex® A 4100 CL

Polylactic Acid

FKuR Kunststoff GmbH

Message:

Bio-Flex® A 4100 CL is a Polylactic Acid (PLA) material. It is available in Europe for film extrusion. Primary attribute of Bio-Flex® A 4100 CL: Eco-Friendly/Green.

Typical application of Bio-Flex® A 4100 CL: Film

General Information			
Features	Biodegradable		
	Compostable		
	Renewable Resource Content		
Uses	Film		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183
Apparent Density	0.82	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0 to 10	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	5.50 to 9.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1840	MPa	ISO 527-2
Tensile Stress			
Break	22.0	MPa	ISO 527-2
--	44.0	MPa	ISO 527
Tensile Strain (Break)	12	%	ISO 527-2
Flexural Modulus	1770	MPa	ISO 178
Flexural Stress (3.5% Strain)	48.0	MPa	ISO 178
Flexural Strain at Break	No break	%	ISO 178
Tensile Strain at Tensile Strength	5.0	%	ISO 527
Films	Nominal Value	Unit	Test Method
Nitrogen Transmission Rate (25 µm)	65.0	cm ³ /m ² /24 hr	DIN 53380-2
Oxygen Transmission Rate (20 µm)	130	cm ³ /m ² /24 hr	ISO 15105-2
Water Vapor Transmission ¹	170	g/m ² /24 hr	ISO 15106-3
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	44	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	40.0	°C	ISO 75-2/B

Vicat Softening Temperature	44.0	°C	ISO 306/A
Melting Temperature (DSC)	> 155	°C	ISO 3146
NOTE			
1.	20μm		

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Recommended distributors for this material

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