

Ecovio® F2223

Copolyester

BASF Corporation

Message:

ecovio® F2223 is our biodegradable film product containing renewable resources. It is basically a compound of our biodegradable copolyester ecoflex® F Blend and polylactic acid (PLA). Because of the PLA content ecovio® F2223 consists of 32 % of renewable resources. ecoflex® F Blend is the continuous phase in the structure of ecovio® F2223 transferring the beneficial film properties of ecoflex® F Blend into the new product.

General Information			
Features	Biodegradable		
	Compostable		
	Food Contact Acceptable		
	Good Melt Strength		
	Good Processability		
	Good Stiffness		
	Good Thermal Stability		
	High Strength		
	Renewable Resource Content		
	Semi Crystalline		
Uses	Weldable		
	Bags		
	Blown Film		
Agency Ratings	Packaging		
	DIN EN 13432		
	EC 1907/2006 (REACH)		
	EU 2002/72/EC		
	FDA FCN 178		
RoHS Compliance	FDA FCN 475		
	FDA FCN 907		
	RoHS Compliant		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	1.24 to 1.26	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	< 2.0	g/10 min	ISO 1133

Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	3.50 to 7.50	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	59		ISO 868
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	μm	
Tensile Modulus			ISO 527-3
MD : 50 μm, Blown Film	840	MPa	
TD : 50 μm, Blown Film	280	MPa	
Tensile Stress			ISO 527-3
MD : Break, 50 μm, Blown Film	39.0	MPa	
TD : Break, 50 μm, Blown Film	29.0	MPa	
MD : 50 μm, Blown Film	39.0	MPa	
TD : 50 μm, Blown Film	30.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 50 μm, Blown Film	330	%	
TD : Break, 50 μm, Blown Film	430	%	
Water Vapor Transmission Rate (50 μm, Blown Film)	84	g/m ² /24 hr	ASTM F1249
Oxygen Permeability ¹	670	cm ³ /m ² /bar/24 hr	ASTM D3985
Failure Energy - Dyna Test ² (50.0 μm)	420	J/cm	DIN 53373
Renewable Content	32	%	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/A50
Melting Temperature			DSC
-- ³	110 to 120	°C	
-- ⁴	140 to 155	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (50.0 μm, Blown Film)	85.0	%	ASTM D1003
NOTE			
1.	Blown Film		
2.	Blown Film		
3.	ecoflex®		
4.	PLA		

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