



ecovio® F23B1

BASF Corporation - Copolyester

Sunday, November 3, 2019

General Information

Product Description

ecovio® F23B1 is our biodegradable product containing renewable resources. It is basically a compound of our biodegradable, statistical, aliphatic-aromatic copolyester ecoflex® and a small amount of polylactic acid (PLA). Due to its outstanding mechanical strength ecovio® F23B1 offers a great down gauging potential needed for very thin film applications like T-shirt bags, organic waste bags etc. ecovio® F23B1 already contains antiblocking and slip agents required for easy processing on film extrusion and film conversion equipment.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Antiblock	• Slip	
Features	• Aliphatic • Antiblocking • Aromatic • Biodegradable • Compostable	• Excellent Processability • Food Contact Acceptable • Good Thermal Stability • High Melt Strength • High Strength	• Renewable Resource Content • Semi Crystalline • Slip • Weldable
Uses	• Bags	• Blown Film	
Agency Ratings	• ASTM D6400 • DIN EN 13432 • EC 1907/2006 (REACH)	• EU 2002/72/EC • FDA FCN 178 • FDA FCN 475	• FDA FCN 907
RoHS Compliance	• RoHS Compliant		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Blown Film		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36 to 1.40	g/cm ³	ISO 1183
Apparent (Bulk) Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	5.00 to 11.0	cm ³ /10min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Modulus			ISO 527-3
MD : 0.98 mil, Blown Film	37700	psi	
TD : 0.98 mil, Blown Film	18900	psi	
Tensile Strength			ISO 527-3
MD : 0.98 mil, Blown Film	3630	psi	
TD : 0.98 mil, Blown Film	3630	psi	
Tensile Elongation			ISO 527-3
MD : Break, 0.98 mil, Blown Film	480	%	
TD : Break, 0.98 mil, Blown Film	570	%	
Dart Drop Impact (0.98 mil, Blown Film)	250	g	ASTM D1709A
Elmendorf Tear Strength			ISO 6383-2
MD : 0.98 mil, Blown Film	0.29	lbf	
TD : 0.98 mil, Blown Film	0.20	lbf	

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Thermal	Nominal Value	Unit	Test Method
Melting Temperature			DSC
-- ²	230 to 248	°F	
-- ³	284 to 311	°F	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² ecoflex®
- ³ PLA