



ecovio® F2331

BASF Corporation - Copolyester

Sunday, November 3, 2019

General Information

Product Description

ecovio® F2331 is one of our biodegradable film products containing renewable resources. It is basically a compound of our biodegradable copolyester ecoflex® and polylactic acid (PLA). Due to its outstanding mechanical strength ecovio® F2331 offers a great down gauging potential needed for very thin film applications like vegetable bags, organic waste bags etc. ecovio® F2331 already contains antiblocking and slip agents required for improved processing on film extrusion and film conversion equipment. Due to the high ecoflex® content in the continuous phase of the polymer structure, ecovio® F2331 exhibits very good sealing properties required for mono- and multi-layer films.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Antiblock	• Slip	
Features	• Antiblocking • Biodegradable • Compostable	• Food Contact Acceptable • High Strength • Renewable Resource Content	• Slip
Uses	• Bags	• Blown Film	• Packaging
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		
Forms	• Pellets		
Processing Method	• Blown Film		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.24 to 1.26	g/cm ³	ISO 1183
Apparent (Bulk) Density	0.78	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	8.0 to 12	cm ³ /10min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Modulus			ISO 527-3
MD : 1.2 mil, Blown Film	29000	psi	
TD : 1.2 mil, Blown Film	18900	psi	
Tensile Strength			ISO 527-3
MD : 1.2 mil, Blown Film	5370	psi	
TD : 1.2 mil, Blown Film	5800	psi	
Tensile Elongation			ISO 527-3
MD : Break, 1.2 mil, Blown Film	550	%	
TD : Break, 1.2 mil, Blown Film	600	%	
Dart Drop Impact (1.2 mil, Blown Film)	500	g	ASTM D1709A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			DSC
-- ²	230 to 248	°F	
-- ³	284 to 311	°F	

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Notes

¹ Typical properties: these are not to be construed as specifications.

² ecoflex®

³ PLA