



ecovio® F2224

BASF Corporation - Copolyester

Sunday, November 3, 2019

General Information

Product Description

ecovio® F2224 is our biodegradable film product containing renewable resources. It is basically a compound of our biodegradable copolyester ecoflex® F Blend and polylactic acid (PLA).

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Biodegradable • Compostable • Excellent Processability • Food Contact Acceptable	• Good Thermal Stability • High Melt Strength • High Stiffness • High Strength	• Renewable Resource Content • Semi Crystalline • Weldable
Uses	• Blow Molding Applications • Blown Film	• Bottles • Containers	• 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		
Appearance	• Translucent		
Forms	• Pellets		
Processing Method	• Blow Molding	• 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	0.74	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	3.00 to 6.50	cm ³ /10min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	2	mil	
Tensile Modulus			ISO 527-3
MD : 2.0 mil, Blown Film	160000	psi	
TD : 2.0 mil, Blown Film	87000	psi	
Tensile Strength			ISO 527-3
MD : 2.0 mil, Blown Film	6820	psi	
TD : 2.0 mil, Blown Film	5800	psi	
Tensile Elongation			ISO 527-3
MD : Break, 2.0 mil, Blown Film	440	%	
TD : Break, 2.0 mil, Blown Film	350	%	
Dart Drop Impact (2.0 mil, Blown Film)	320	g	ASTM D1709A
Elmendorf Tear Strength			ISO 6383-2
MD : 2.0 mil, Blown Film	0.063	lbf	
TD : 2.0 mil, Blown Film	0.052	lbf	
Water Vapor Transmission Rate			ASTM F1249
73°F, 85% RH, 2.0 mil, Blown Film	6.3	g/100 in ² /24 hr	
Oxygen Permeability - Blown Film (73°F, 2.0 mil)	860	cm ³ /m ² /bar/24 hr	ASTM D3985

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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