



ecovio® FT2341

BASF Corporation - Copolyester

Sunday, November 3, 2019

General Information

Product Description

ecovio® FT2341 is our new biodegradable film product based on renewable resources. It is basically a compound of our biodegradable, aliphatic-aromatic copolyester grades ecoflex® F and ecoflex® FS and a small amount of polylactic acid (PLA). ecovio® FT2341 has a biobased content of 34%. Due to its outstanding mechanical strength ecovio® FT2341 offers a great down gauging potential needed for very thin film applications like T-shirt, organic waste and fruit & vegetable bags etc. ecovio® FT2341 does not contain slip agents. ecoflex® slip masterbatches have to be used to tailor the sliding properties required for easy processing on film extrusion and film conversion equipment.

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Features	• Aliphatic • Aromatic • Biodegradable • Compostable	• Food Contact Acceptable • Good Processability • Good Tear Strength • Good Thermal Stability	• High Melt Strength • High Strength • Renewable Resource Content • Semi Crystalline
Uses	• Bags	• Blown Film	
Agency Ratings	• ASTM D6400 • DIN EN 13432	• EC 1907/2006 (REACH) • EU Food Contact, Unspecified Rating	• FDA Food Contact, Unspecified Rating
RoHS Compliance	• RoHS Compliant		
Appearance	• Clear/Transparent	• 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)	2.50 to 7.50	cm ³ /10min	ISO 1133
Biobased Content	34	%	ASTM D6866
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Modulus			ISO 527-3
MD : 0.98 mil, Blown Film	39200	psi	
TD : 0.98 mil, Blown Film	23200	psi	
Tensile Strength			ISO 527-3
MD : 0.98 mil, Blown Film	3480	psi	
TD : 0.98 mil, Blown Film	3050	psi	
Tensile Elongation			ISO 527-3
MD : Break, 0.98 mil, Blown Film	340	%	
TD : Break, 0.98 mil, Blown Film	610	%	
Dart Drop Impact (0.98 mil, Blown Film)	150	g	ASTM D1709A
Elmendorf Tear Strength			ISO 6383-2
MD : 0.98 mil, Blown Film	1.1	lbf	
TD : 0.98 mil, Blown Film	0.67	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