

ecovio® FT2341

Technical DataSheet | Supplied by BASF

ecovio® FT2341 by BASF is a biodegradable compound for compostable film with a bio-based content of 34% partly based on renewable resources. It is a compound of aliphatic-aromatic copolyester ecoflex® F and polylactic acid (PLA). It does not contain slip agent. This grade possesses high melt strength, good thermostability up to 230°C and good mechanical properties. ecovio® FT2341 demonstrates excellent processability, down gauging up to 10 µm with thickness 20-120 µm and wet strength. It exhibits excellent welding properties. It is printable in 8 colors by flexo printing. This grade is designed for the conversion to flexible films using a blown film process. It is used for of thin film applications like t-shirt, organic waste and fruit & vegetable bags.

Product Type	PLA (Polylactide) > PLA Alloy
Physical Form	Pellets
Appearance	White, Transculent
Product Status	COMMERCIAL
Applications/ Recommended for	Packaging Extrusion > Films (blown)
Food contact approval	Yes
Biodegradable	Yes
Bio Based	Yes
Bio Based Content (%)	34
Labels/Agency Rating	DIN Certco EN 13432 Vinçotte OK Compost (EN 13432) Vinçotte OK Compost Home Vinçotte OK Biodegradable Soil DIN EN ISO 9001:2008 US Food Regulation EU Food Stuff Legislation
Key Features	Biodegradable Compostable Mechanical Properties, Good Melt Strength, Good Processability, Good Renewable Resource Content Thermal Stability, Good Weldable

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ecovio® FT2341 Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.33 - 1.35 g/cm ³		ISO 1183
Density, Bulk	800 kg/m ³		DIN EN ISO 60
Melt Volume Flow Rate (MVR)	2.5 - 7.5 ml/10min	At 190°C, 5 kg	ISO 1133
Thermal	Value & Unit	Test Condition	Test Method
Melting Point	110 - 120 °C	At DSC	
Mechanical	Value & Unit	Test Condition	Test Method
Modulus of Elasticity	270 MPa	At MD, 25µm blown film	ISO 527
Modulus of Elasticity	160 MPa	At TD, 25µm blown film	ISO 527
Impact Strength, Dart Drop	150 g	At 25µm blown film	ASTM D1709-04-A
Tear Propagation	3000 mN	At TD, 25µm blown film	DIN EN ISO 6383-2
Tear Propagation	4900 mN	At MD, 25µm blown film	DIN EN ISO 6383-2
Tensile Elongation, Ultimate	610 %	At TD, 25µm blown film	ISO 527
Tensile Elongation, Ultimate	340 %	At MD, 25µm blown film	ISO 527
Tensile Strength	21 MPa	At TD, 25µm blown film	ISO 527

Tensile Strength

24 MPa

At MD, 25µm blown film

ISO 527

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