

ecovio® FS2312

Technical DataSheet | Supplied by BASF

ecovio® FS2312 by BASF is a biodegradable compound for compostable film with a bio-based content of 46% and 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 displays softer touch, improved contact transparency & clarity. It exhibits better welding performance and hot tack due to lower melting point. This grade shows accelerated biodegradation speed and improved composting according to EN 13432. It possesses high melt strength, good thermostability up to 230°C and good mechanical properties. ecovio® FS2312 demonstrates excellent processability and wet strength. It is printable in 8 colors by flexo printing. This grade is developed for the conversion to flexible films using a blown film process in a thickness range of 20-240µm. It is used for manufacturing of packaging films, hygienic films, carrier bags and compost bags.

Product Type	PLA (Polylactide) > PLA Alloy
Physical Form	Pellets
Product Status	COMMERCIAL
Applications/ Recommended for	Packaging Extrusion > Films (blown)
Food contact approval	Yes
Biodegradable	Yes
Bio Based	Yes
Bio Based Content (%)	46
Labels/Agency Rating	DIN Certco EN 13432 (EU) Vinçotte EN 13432 (EU) BPI ASTM D6400 (USA) ABAM AS 4736 (AUS) DIN EN ISO 9001:2008 EU Food Stuff Legislation US Food Regulation
Key Features	Biodegradable Clarity, Contact Compostable Mechanical Properties, Good Melt Strength, Good Processability, Good Renewable Resource Content Soft Thermal Stability, Good Transparency, Good Weldable

ecovio® FS2312 Properties

Physical	Value & Unit	Test Condition	Test Method
Density	1.24 g/cm ³		ISO 1183
Melt Volume Flow Rate (MVR)	2.5 - 6.5 ml/10min	At 190°C, 5 kg	ISO 1133
Mechanical	Value & Unit	Test Condition	Test Method
Elongation at Break, MD	380 %	At 30µm blown film	ISO 527
Elongation at Break, TD	670 %	At 30µm blown film	ISO 527
Modulus of Elasticity	190 MPa	At TD, 30µm blown film	ISO 527
Modulus of Elasticity	430 MPa	At MD, 30µm blown film	ISO 527
Impact Strength, Dart Drop	530 g	At 30µm blown film	ASTM D1709-04-A
Tear Resistance	1900 mN	At MD, 30µm blown film	DIN EN ISO 6383-2
Tear Resistance	700 mN	At TD, 30µm blown film	DIN EN ISO 6383-2
Tensile Strength	31 MPa	At MD, 30µm blown film	ISO 527
Tensile Strength	35 MPa	At TD, 30µm blown film	ISO 527
Thermal	Value & Unit	Test Condition	Test Method
Melting Point	105 - 115 °C	At DSC	



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