Ecovio® F23B1

Copolyester

BASF Corporation

Message:

ecovio® F23B1 is our biodegradable product containing renewable resources. It is basically a compound of our biodegradable, statistical, aliphatic-aromatic copolyester ecoflex® and a small amount of polylactic acid (PLA). Due to its outstanding mechanical strength ecovio® F23B1 offers a great down gauging potential needed for very thin film applications like T-shirt bags, organic waste bags etc. ecovio® F23B1 already contains antiblocking and slip agents required for easy processing on film extrusion and film conversion equipment.

General Information	
Additive	Anti-caking agent slip agent
Features	Semicrystallization Aroma High strength smoothness Anti-caking property Comstable Updatable resources Weldable Workability, good Good melt strength Thermal stability, good Biodegradable Compliance of Food Exposure aliphatic
Uses	Blown Film Bags
Agency Ratings	ASTM D 6400 DIN EN 13432 EC 1907/2006 (REACH) FDA FCN 178 FDA FCN 475 FDA FCN 907 European 2002/72/EC
RoHS Compliance	RoHS compliance
Appearance	Translucent

Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.36 - 1.40	g/cm³	ISO 1183
Apparent Density	0.80	g/cm³	ISO 60
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	5.00 - 11.0	cm³/10min	ISO 1133
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	25	µm	
Tensile Modulus			ISO 527-3
MD: 25 µm, blown film	260	MPa	ISO 527-3
TD: 25 µm, blown film	130	MPa	ISO 527-3
Tensile Strength			ISO 527-3
MD: 25 µm, blown film	25.0	MPa	ISO 527-3
TD: 25 µm, blown film	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 25 µm, blown film	480	%	ISO 527-3
TD: Broken, 25 µm, blown film	570	%	ISO 527-3
Dart Drop Impact (25 µm, Blown Film)	250	g	ASTM D1709A
Elmendorf Tear Strength			ISO 6383-2
MD: 25 µm, blown film	1.3	N	ISO 6383-2
TD: 25 µm, blown film	0.90	N	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature			DSC
-- [1]	110 - 120	°C	DSC
-- [2]	140 - 155	°C	DSC
NOTE			
1.	ecoflex®		
2.	PLA		

Recommended distributors for this material

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