

Ecovio® M2351

Copolyester

BASF Corporation

Message:

ecovio® M2351 is our new biodegradable compound for film extrusion based on our biodegradable copolyester ecoflex® F Blend and polylactic acid (PLA). Due to its outstanding mechanical strength ecovio® M2351 offers a great down gauging potential needed for thin agricultural or horticultural film applications like mulch film, cover film, silage film and others. ecovio® M2351 already contains antiblocking agents required for easy processing on film extrusion and film conversion equipment. ecoflex® F Blend is the continuous phase in the structure of ecovio® M2351 transferring the beneficial film properties of ecoflex® F Blend into the new product.

General Information			
Additive	Antiblock		
Features	Antiblocking		
	Biodegradable		
	Compostable		
	Good Melt Strength		
	Good Processability		
	Good Thermal Stability		
	High Strength		
	Semi Crystalline		
	Weldable		
Uses	Agricultural Applications		
	Blown Film		
Agency Ratings	DIN EN 13432		
	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS Compliant		
Appearance	Translucent		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	1.37 to 1.40	g/cm ³	ISO 1183
Apparent Density	0.80	g/cm ³	ISO 60
Melt Volume-Flow Rate (MVR) (190°C/5.0 kg)	5.00 to 11.0	cm ³ /10min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	12	µm	ISO 527-3
Tensile Modulus			
MD : 12 µm, Blown Film	260	MPa	
TD : 12 µm, Blown Film	130	MPa	

Tensile Stress			ISO 527-3
MD : Break, 12 µm, Blown Film	22.0	MPa	
TD : Break, 12 µm, Blown Film	18.0	MPa	
MD : 12 µm, Blown Film	25.0	MPa	
TD : 12 µm, Blown Film	20.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 12 µm, Blown Film	180	%	
TD : Break, 12 µm, Blown Film	380	%	
Dart Drop Impact (12 µm, Blown Film)	200	g	ASTM D1709A
Water Vapor Transmission Rate (38°C, 90% RH, 12 µm, Blown Film)	1500	g/m ² /24 hr	ASTM F1249
Thermal	Nominal Value	Unit	Test Method
Melting Temperature			DSC
-- ¹	110 to 120	°C	
-- ²	140 to 155	°C	
NOTE			
1.	ecoflex®		
2.	PLA		

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