

Biograde B-F

Biodegradable Polymers

Biograde Group of Companies

Message:

BIOGRADE B-F is a Compostable and Biodegradable plastic based on a blend of thermoplastic starch (TPS), aliphatic polyesters (AP) and natural plasticizers. This grade of resin is compatibilised to offer a high level of mechanical strength, outstanding elongation properties and toughness. The resin is based on corn starch which is a renewable material.

Biograde B-F resins are certified biodegradable during composting in professionally managed composting facilities.

Complies with European Standard EN13432, ASTM 6400 (USA), and Japan "GreenPla".

Complies with International Standard ISO16929, ISO 14855

Used for blown film applications up to 120 microns.

Applications

Compostable bags

Shopping bags/Check-out bags

Garbage bags

Leaf litter bags

Green bin liners

Produce and meat liners

Overwrap Packaging

Mulch film

Breathable film

General Information			
Features	Biodegradable		
	Compostable		
	Good Toughness		
	High Elongation		
	High Strength		
	Renewable Resource Content		
Uses	Bags		
	Blow Molding Applications		
	Film		
	Liners		
	Packaging		
Agency Ratings	ASTM D 6400		
	EN 13432		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (150°C/0.325 kg)	1.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method

Tensile Strength			ASTM D883
Yield	> 25.0	MPa	
Break	> 15.0	MPa	
Tensile Elongation ¹ (Break)	> 500	%	ASTM D883
Films	Nominal Value	Unit	Test Method
Dart Drop Impact	230	g	ASTM D1709
Elmendorf Tear Strength - MD	300	g	ASTM D1922
Oxygen Transmission Rate (Wet)	1180	cm ³ /m ² /24 hr	ASTM F1927
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	90.0 to 130	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Blown Film Melt Temperature	90 to 135	°C	
NOTE			

1. Low strain rates

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