

Biograde BL-F

Biodegradable Polymers

Biograde Group of Companies

Message:

Starch based masterbatch for film or blow moulded applications where sustainability is required but biodegradability is not.

Blendable with LDPE, LLDPE and HDPE resin.

Used for thin and thick gauge film applications.

BIOGRADE BL-F masterbatch is based on a blend of thermoplastic starch (TPS) with PE/PP. This blendable grade 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. This thermoplastic starch PE masterbatch can be blended with polyethylene to give controlled lifetime material where degradation time over 1 year is required.

Applications

Shopping bags/Check-out bags

Garbage bags

Leaf litter bags

Bin liners

Overwrap Packaging

Disposable or industrial bottles

General Information			
Features	Biodegradable		
	Good Toughness		
	High Elongation		
	High Strength		
	Renewable Resource Content		
Uses	Bags		
	Blending		
	Blow Molding Applications		
	Bottles		
	Film		
	Liners		
	Packaging		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	1.15	g/cm ³	ASTM D4883
Melt Mass-Flow Rate (MFR) (150°C/5.0 kg)	2.9	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D883
Yield	10.0	MPa	
Break	> 10.0	MPa	
Tensile Elongation ² (Break)	> 500	%	ASTM D883

Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	90.0 to 100	°C	ASTM D3418
Additional Information	Nominal Value	Unit	
Blown Film Melt Temperature	100 to 160	°C	
NOTE			

1. Above tensile properties based on
80% BLF in LDPE

2. Above tensile properties based on
80% BLF in LDPE

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

