

BIOPLAST® GF 106/02

Thermoplastic
BIOTEC GmbH & Co. KG

Message:

BIOPLAST GF 106/02 is BIOTEC's trademark for a completely new, plasticizer-free thermoplastic material. As a result of plasticizer absence no material built-up or steam occurs during processing of BIOPLAST GF 106/02. The material is extremely suitable for blown film extrusion, sheet film extrusion, tube extrusion and injection moulding of completely biodegradable products. The complete biodegradability and other functional properties enable the converter to advance in production areas, which could not be reached with traditional thermoplastic materials. The potato starch used for BIOPLAST GF 106/02 is native and not blended with plasticizer (which would be necessary for example to produce thermoplastic starch, TPS). BIOPLAST GF 106/02 therefore exhibits outstanding processing and performance characteristics as well as an excellent shelf life.

General Information			
Features	Biodegradable		
	Excellent Printability		
	Food Contact Acceptable		
	Gasoline Resistance		
	Good Colorability		
	Grease Resistant		
	Oil Resistant		
	Renewable Resource Content		
	Soft		
Uses	Agricultural Applications		
	Bags		
	Film		
	Food Packaging		
	Packaging		
Agency Ratings	ASTM D 6400		
	EEC 2002/72/EC		
	EN 13432		
Forms	Granules		
Processing Method	Blown Film		
	Film Extrusion		
	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	1.20 to 1.30	g/cm ³	ISO 1183
Apparent Density	0.74 to 0.80	g/cm ³	ISO 60

Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	2.5 to 3.5	g/10 min	ISO 1133
Particle Size	1.50 to 2.50	mm	
Water Content	< 0.50	wt%	Internal Method
Oxygen Permeability (80.0 µm)	750	cm ³ /m ² /bar/24 hr	DIN 53380-3
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	> 10	µm	ISO 2286-3
Tensile Strength			ISO 527-3
MD : 23°C, 10 µm	20.0 to 35.0	MPa	
TD : 23°C, 10 µm	20.0 to 35.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 10 µm	600 to 900	%	
TD : Break, 10 µm	600 to 900	%	
Water Vapor Transmission Rate (80 µm)	120	g/m ² /24 hr	DIN 53122
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	1.10 to 1.20	g/cm ³	ISO 1133

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