

BIOPLAST® Wrap 100

Thermoplastic
BIOTEC GmbH & Co. KG

Message:

BIOPLAST WRAP 100 is BIOTEC's trademark for a completely new, plasticizer-free thermoplastic material, which allows the production of films with paper-like properties. As a result of plasticizer absence no material built-up or steam occurs during processing of BIOPLAST WRAP 100. The complete biodegradability and other functional properties of BIOPLAST WRAP 100 enable the converter to advance in production areas, which could not be reached with traditional thermoplastic materials or paper. The potato starch used for BIOPLAST WRAP 100 is native and not blended with plasticizer (which would be necessary for example to produce thermoplastic starch, TPS). BIOPLAST WRAP 100 therefore exhibits outstanding processing- and performance-characteristics as well as an excellent shelf life.

General Information			
Features	Biodegradable		
	Excellent Printability		
	Food Contact Acceptable		
	Good Colorability		
	Good Heat Seal		
	Good Ultrasonic Properties		
	Grease Resistant		
	Low to No Water Absorption		
	Oil Resistant		
	Renewable Resource Content		
Uses	Film		
	Food Packaging		
	Laminates		
Agency Ratings	ASTM D 6400		
	EN 13432		
	EU 2002/72/EC		
Forms	Granules		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.30 to 1.50	g/cm ³	ISO 1183/A
Apparent Density	0.85 to 0.95	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10 to 20	g/10 min	ISO 1133
Particle Size	1.00 to 3.00	mm	
Water Content	< 0.30	%	Internal Method

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	> 10	μm	ISO 2286-3
Tensile Strength			ISO 527-3
MD : 23°C, 10 μm	10.0 to 20.0	MPa	
TD : 23°C, 10 μm	10.0 to 20.0	MPa	
Oxygen Transmission Rate (Wet) (20 μm)	1000 to 1500	cm ³ /m ² /24 hr	ASTM F1927
Water Vapor Transmission Rate (20 μm)	150 to 190	g/m ² /24 hr	ASTM F1249
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	1.20 to 1.40	g/cm ³	ISO 1133

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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

