

BIOPLAST® 105

Thermoplastic
BIOTEC GmbH & Co. KG

Message:

BIOPLAST 105 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 105. The material is extremely suitable for injection moulding, sheet film extrusion and blown film extrusion 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.

General Information	
Features	Biodegradable
	Excellent Printability
	Food Contact Acceptable
	Gasoline Resistance
	Good Colorability
	Grease Resistant
	High Rigidity
	Low to No Water Absorption
	Moisture Barrier
	Oil Resistant
	Renewable Resource Content
Uses	Bags
	Coating Applications
	Film
	Food Packaging
	Food Wrap
	Netting
	Paper Coatings
	Sheet
	Shrink Wrap
Agency Ratings	EN 13432
	EU 2002/72/EC
	EU 67/548/EEC
Appearance	Clear/Transparent
Forms	Granules
Processing Method	Blown Film
	Film Extrusion
	Injection Molding

Sheet Extrusion

Physical	Nominal Value	Unit	Test Method
Density	1.10 to 1.30	g/cm ³	ISO 1183/A
Apparent Density	0.75 to 0.83	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.0 to 11	g/10 min	ISO 1133
Particle Size	3.00 to 4.00	mm	
Water Content	< 0.50	%	Internal Method
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	> 10	μm	
Tensile Strength			ISO 527-3
MD : 23°C, 10 μm	20.0 to 50.0	MPa	
TD : 23°C, 10 μm	20.0 to 50.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 10 μm	100 to 900	%	
TD : Break, 10 μm	100 to 900	%	
Water Vapor Transmission Rate (10 μm)	70 to 90	g/m ² /24 hr	DIN 53122
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density	1.00 to 1.20	g/cm ³	ISO 1133

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

