

## Stanelco Bioplast® GF 106 Biodegradable Plastic

Category : Polymer , Film , Renewable/Recycled Polymer , Thermoplastic

### Material Notes:

Bioplast 106 is a versatile soft product, suitable for blown film extrusion of completely biodegradable products. Many customers find it is a natural replacement for LDPE. Made from potato starch mixed with other proprietary brand products for superior flexibility - it is a plasticiser and GM free material. Bioplast 106 polymer is certified EN 13432 and DIN CERTCO biodegradable and compostable " depending on thickness. Bioplast 106 has EU & FDA (USA) Food Contact Approval for all non high-acidic foods. This product is also printable by flexographic or offset printing without any pre-treatment and can be coloured with masterbatches. Bioplast 106 was developed for the packaging, consumer and industrial sectors. Applications include formed parts and film usage, i.e. disposable fast food packaging, carrier bags and refuse sacks. The product is versatile and can be blown into thin sheet or film applications, injection moulding into virtually any shape and is suitable for blending with Bioplast 2189 in order to create differing properties for specific applications. Bioplast 106 has the ability to " drop into" most applications with little adjustment or affect on performance. Information provided by Stanelco.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Stanelco-Bioplast-GF-106-Biodegradable-Plastic.php](http://www.lookpolymers.com/polymer_Stanelco-Bioplast-GF-106-Biodegradable-Plastic.php)

Physical Properties	Metric	English	Comments
Bulk Density	0.740 - 0.800 g/cc	0.0267 - 0.0289 lb/in <sup>3</sup>	DIN 53466
Density	1.20 - 1.30 g/cc	0.0434 - 0.0470 lb/in <sup>3</sup>	DIN 53479/A
Melt Density	1.10 - 1.30 g/cc	0.0397 - 0.0470 lb/in <sup>3</sup>	DIN 53735
Particle Size	1500 - 2500 Åµm	1500 - 2500 Åµm	Diameter per caliper rule
Moisture Vapor Transmission	3.42 - 4.18 cc-mm/mÅ²-24hr-atm	8.69 - 10.6 cc-mil/100 inÅ²-24hr-atm	38 Åµm film; DIN 53122 Part 1
Thickness	>= 10.0 microns	>= 0.394 mil	DIN 53353
Melt Flow	1.0 - 6.0 g/10 min @Load 5.00 kg, Temperature 190 Å°C	1.0 - 6.0 g/10 min @Load 11.0 lb, Temperature 374 Å°F	DIN 53735

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 - 900 %	500 - 900 %	DIN 53455
Film Elongation at Break, TD	500 - 900 %	500 - 900 %	DIN 53455
Film Tensile Strength at Break, MD	20.0 - 35.0 MPa	2900 - 5080 psi	50% RH; DIN 53455
Film Tensile Strength at Break, TD	20.0 - 35.0 MPa	2900 - 5080 psi	50% RH; DIN 53455

Thermal Properties	Metric	English	Comments
Vicat Softening Point	65.0 Å°C	149 Å°F	VST A/50; DIN 53460

Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Moisture Content	<= 0.50 %	<= 0.50 %	BIOTEC Test
Shelf Life	6.00 Month	6.00 Month	with proper storage

## Contact Songhan Plastic Technology Co.,Ltd.

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