

Stanelco Bioplast® GS 2189 Biodegradable Plastic

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

Material Notes:

Bioplast 2189 is a product that is optimised for sheet extrusion, injection and compression moulding. It is always biodegradable and readily compostable in thin sections, this material is useable in existing moulds and equipment and can be coloured vividly. Bioplast 2189 is a natural replacement for PVC, PP, HDPE and PET. It is a bio-compostable material made from over 60% sustainable crop material and 20% non oil-based products. Made from corn starch mixed with other proprietary brand products for superior flexibility, Bioplast 2189 polymer is certified EN 13432 and DIN CERTCO biodegradable and compostable. Bioplast 2189 has EU & FDA (USA) Food Contact Approval. Bioplast 2189 was developed for the packaging, consumer and industrial sectors. Applications include formed parts and film usage, i.e. trays, pouches, wrapping, parts, lids, cups and containers. The product is versatile and can be made into sheet for thermoforming, blown into thin sheet for film, or injection moulded into virtually any shape. Bioplast 2189 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-GS-2189-Biodegradable-Plastic.php

Physical Properties	Metric	English	Comments
Bulk Density	0.880 - 0.940 g/cc	0.0318 - 0.0340 lb/in ³	DIN 53466
Density	1.20 - 1.40 g/cc	0.0434 - 0.0506 lb/in ³	DIN 53479/A
Melt Density	1.10 - 1.30 g/cc	0.0397 - 0.0470 lb/in ³	DIN 53735
Particle Size	2000 - 3000 µm	2000 - 3000 µm	Diameter per caliper rule
Oxygen Transmission Rate	40.0 - 60.0 cc/m ² /day	2.58 - 3.86 cc/100 in ² /day	400 µm; ASTM F1927-98
Carbon Dioxide Transmission	60.0 - 80.0 cc-mm/m ² -24hr-atm	152 - 203 cc-mil/100 in ² -24hr-atm	400µm; ASTM D1434
Thickness	>= 10.0 microns	>= 0.394 mil	DIN 53353
Melt Flow	15 - 40 g/10 min @Load 2.16 kg, Temperature 190 °C	15 - 40 g/10 min @Load 4.76 lb, Temperature 374 °F	DIN 53735

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	10 - 30 %	10 - 30 %	DIN 53455
Film Elongation at Break, TD	10 - 30 %	10 - 30 %	DIN 53455
Film Tensile Strength at Break, MD	30.0 - 45.0 MPa	4350 - 6530 psi	50% RH; DIN 53455
Film Tensile Strength at Break, TD	30.0 - 45.0 MPa	4350 - 6530 psi	50% RH; DIN 53455

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.20 %	<= 0.20 %	BIOTEC Test
Shelf Life	6.00 Month	6.00 Month	with proper storage

Contact Songhan Plastic Technology Co.,Ltd.

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