

Green Dot Terratek® Flex GDH-B1 Compostable Bioplastic Elastomer

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Elastomer , TPE

Material Notes:

GDH-B1 is an elastomeric bioplastic with a diverse range of potential applications. It is a starch-based elastomer that is strong, durable and pliable with an exquisite soft touch. The bioplastic is verified to meet U.S. (ASTM D6400) and E.U. (EN 13432) standards for compostability. This material is suitable for injection molding, profile extrusion, sheet extrusion, blow molding, and blown film. Information provided by Green Dot Holdings.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Green-Dot-Terratek-Flex-GDH-B1-Compostable-Bioplastic-Elastomer.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183-1
Melt Flow	27 g/10 min @Load 2.18 kg, Temperature 190 °C	27 g/10 min @Load 4.80 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	74	74	ISO 868
Tensile Strength, Ultimate	9.40 MPa	1360 psi	ISO 37
Elongation at Break	>= 600 %	>= 600 %	ISO 37
Modulus of Elasticity	0.00440 GPa	0.638 ksi	ISO 37
Tear Strength	57.0 kN/m	325 pli	ISO 34-1
Compression Set	33 % @Temperature 23.0 °C, Time 79200 sec	33 % @Temperature 73.4 °F, Time 22.0 hour	ISO 815 or ASTM D395
	82 % @Temperature 70.0 °C, Time 79200 sec	82 % @Temperature 158 °F, Time 22.0 hour	ISO 815 or ASTM D395

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	149 - 165 °C	300 - 329 °F	
Middle Barrel Temperature	149 - 165 °C	300 - 329 °F	
Front Barrel Temperature	149 - 165 °C	300 - 329 °F	

Nozzle Temperature Processing Properties	149 - 165 Â°C Metric	300 - 329 Â°F English	Comments
Melt Temperature	<= 177 Â°C	<= 350 Â°F	
Drying Temperature	32.2 - 37.8 Â°C @Time 7200 - 10800 sec	90.0 - 100 Â°F @Time 2.00 - 3.00 hour	out of sealed box
	37.8 - 48.9 Â°C @Time 14400 - 18000 sec	100 - 120 Â°F @Time 4.00 - 5.00 hour	out of open box
Moisture Content	<= 0.10 %	<= 0.10 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China