

TECHNICAL DATA SHEET

Guardian Biobased TPE Infill

DESCRIPTION/APPLICATION

Guardian Biobased TPE Infill is a specialty flexible TPE product formulated for lower field temperatures, high melt (>350°F), softer feel, (nonabrasive, air blown particles) and ideal compaction for athletic performance. USDA Certified with natural components from corn and soy.

GENERAL PROPERTIES	VALUE	METHOD
Particle Size (mm)	2.0-3.35	Extruded through die with 5 unique particle profiles.
Particle Shape	Round/Medium Sphericity	Extruded through die with 5 unique particle profiles.
Bulk Density (g/cm ³)	0.65	
Specific Gravity (+/- 0.02)	1.15-1.18	ASTM D-792
Hardness Delayed 10 sec, Shore A (+/- 3)	65	ASTM D-2240
Friability	89%	PrEN 15330-5
Melt Temperature	350°F	
Temperature Reduction	28°F	
Bio Content	48.58%	ASTM-D6866-24 Method B
PFAS	0%	EPA Method 1633

MECHANICAL PROPERTIES	VALUE	METHOD
Tensile Strength, psi	845	ASTM D-638
Elongation, %	265	ASTM D-638
100% Modulus, psi	580	ASTM D-638

ORDERING

Packaging	1,600 & 1,700 lb. super sacks; loaded 26/truck
Manufactured In	Columbus, Mississippi 39701
Lead Time	1-3 weeks

RECOMMENDED STOCK TEMPERATURE

< 325°F

Preparation Date: 01/01/2025

IMPORTANT: The technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product. Refer to warranty for implied warranties of merchantability and fitness for a particular purpose. Nothing contained herein shall be construed as a license to operate under, or recommendation to infringe, any patents.