POLYEARTHYLENE TECHNICAL DATA SHEET

PRODUCT: PEL FZ 299

PRODUCT DESCRIPTION: This is a Bio-based, film grade

of PolyEarthylene tailored specifically for film applications.

All data presented has been analyzed in accordance with ASTM standards.

This material is FDA Title-21 Food Contact Compliant. The biodegradation timeline for this material in film form is approximately 1-3 years.

CHARACTERISTIC	TEST METHOD	VALUE	UNIT
MELT FLOW INDEX	ASTM D1238 Procedure A	0.92	g/10 min (190°C, 2.16Kg)
SPECIFIC GRAVITY	ASTM D792	0.927	g/cm ³
HARDNESS (SHORE D)	ASTM D2240	74.5	N/A
TENSILE STRENGTH (@YIELD)	D638	1726	psi
TENSILE STRENGTH (@BREAK)	D638	403	psi
TENSILE MODULUS	D638	20663	psi
TENSILE ELONGATION	D638	718	%
FLEXURAL MODULUS	D790	20668	psi
FLEXURAL STRENGTH	D790	1140	psi
IZOD IMPACT STRENGTH (NOTCH 1/8" SPECIMEN)	D256	9.17	Ft-lb/in (73 °F)

Processing Conditions:

PolyEarthylene resins can be processed with conventional film extrusion equipment. The addition of this resin should be performed after a standard purging process. The melt temperature of the resin should be kept below 450 °F, if possible.

Manufacturing processes differ and the temperature ranges for blown film extrusion presented in the table are only suggested by Verde Bioresins, Inc.

Modifications to operational parameters may be required for some equipment. Any questions related to the material can be addressed to Verde Bioresins, Inc.

Packaging and Storing:

This resin is packaged in a sealed, foil lined gaylord or bag. The product should be stored in a cool, dry, and isolated area away from moisture and other contaminants to achieve maximum stability and performance.

Notes:

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by the molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed. This data is not based on the minimum quantity of results required to report as qualifying specifications and may be subject to refinement. Data herein is typical and not to be construed as specifications.

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Description of Temperature Zone	Temperatures (Range Value)	
Feed	100-200°F	
Barrel	330-380°F	
Die Head	330-370°F	



(%) (ASTM D6866)

