POLYEARTHYLENE

TECHNICAL DATA SHEET

PRODUCT: PEL IP 269

Renewable Content	
Biobased Content (%) (ASTM D6866)	~25%

PRODUCT DESCRIPTION: PEL-IP-269 is a polypropylene based grade of PolyEarthylene with a minimum biobased content of 25%. It is an extrusion grade of PolyEarthylene tailored specifically for injection molding applications. All data presented has been analyzed in accordance with ASTM standards. The biodegradation timeline for this material is approximately 3-5 years.

CHARACTERISTIC	TEST METHOD	VALUE	UNIT
MELT FLOW INDEX	ASTM D1238	28.1	g/10 min (230 °C, 2.16Kg)
SPECIFIC GRAVITY	ASTM D792	1.043	g/cm^3
HARDNESS (SHORE D)	ASTM D2240	81.5	N/A
TENSILE STRENGTH (@YIELD)	ASTM D638	2422	Psi
TENSILE STRENGTH (@BREAK)	ASTM D638	2161	Psi
TENSILE ELONGATION	ASTM D638	4.75	%
FLEXURAL MODULUS	ASTM D790	110809	Psi
FLEXURAL STRENGTH	ASTM D790	3408	Psi
IZOD IMPACT STRENGTH (NOTCH 1/8" SPECIMEN)	ASTM D256	0.509	Ft-lb/in (73 °F)

Processing Conditions:

PolyEarthylene resins can be processed with conventional injection molding 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.

Every manufacturing process is different and the temperature ranges for extrusion molding 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.

Extrusion /Injection Molding:

Description of Temperature Zone	Temperatures (Range Value)
Feed	100-200°F
Barrel	360-380°F
Die Head	340-360°F

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.