PolyEarthylene®

Verde®

Technical Data Sheet

PEL FZR 365

Product Description

An LLDPE and HDPE blend of PolyEarthylene® containing post-consumer recycled material with a minimum PCR content of 50%. It is a film grade of PolyEarthylene® designed for general blown film applications.

Renewable Content	
Recycled Content (%)	>50
Est. Biodegradation Timeline (Years)	3-5

General

- Complies with U.S. FDA 21 CFR 177.1520 (c)3.1a
- No BPAs, phthalates, or PFAS intentionally added
- Recyclable
- Biodegrades in a landfill environment in 3-5 years under ASTM D5511

Properties	Value (English)	Value (SI)	Method
Melt Flow Index (190°C, 2.16 kg)	0.69 g/10min	0.69 g/10min	ASTM D1238 Procedure A
Specific Gravity	0.989	0.989	ASTM D792
Tensile Strength @Yield	2,422 psi	16.7 MPa	ASTM D638
Tensile Strength @Break	2,002 psi	13.8 MPa	ASTM D638
Tensile Modulus	59,321 psi	409 MPa	ASTM D638
Tensile Elongation	252 %	252 %	ASTM D638
Flexural Modulus	38,290 psi	264 MPa	ASTM D790
Flexural Strength @Peak	1,610 psi	11.1 MPa	ASTM D790
Haze	67.2 % (1.95 mil)	67.2 % (1.95 mil)	ASTM D1003
Light Transmission	86.3 % (1.95 mil)	86.3 % (1.95 mil)	ASTM D1003
Film Ultimate Stress (MD)	2,871 psi (1.95 mil)	19.8 MPa (1.95 mil)	ASTM D882
Film Elongation (MD)	106 % (1.95 mil)	106 % (1.95 mil)	ASTM D882
Film Ultimate Stress (TD)	2,741 psi (1.95 mil)	18.9 MPa (1.95 mil)	ASTM D882
Film Elongation (TD)	296 % (1.95 mil)	296 % (1.95 mil)	ASTM D882

Processing Conditions:

PolyEarthylene resins can be processed with conventional blown film equipment. The addition of this resin should be performed after a standard purging process. The melt temperature of the resin should be kept below 370°F, if possible.

Manufacturing processes differ and the temperature ranges for blown film 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.

Blown Film Processing Parameters:

Description of Temperature Zone	Temperatures (Range Value)
Feed	100-200°F
Barrel	340-380°F
Die Head	340-370°F

Disclaimer:

All data present has been analyzed in accordance with ASTM standards. 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 is typical and not to be construed as specifications.

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