Manufacturer website: https://www.westlake.com/

Westlake Polyethylene™

EF412

Low Density Polyethylene

Technical Data Sheet

Applications

- General purpose clarity packaging
- Medium duty produce bags
- Bakery bags
- Bags for textile films

Product Description

Westlake EF412 is a low-density polyethylene with very good optical and strength properties, making it an excellent choice for bakery films and packaging applications. It is available in a variety of slip and antiblock-containing versions as well as the barefoot EF412AA.

Typical Physical Properties

Property [a]		Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)		D 1238	2.0 g/10 min
Density (Base Formulation)		D 1505	923 kg/m^3 (0.923 g/cm^3)
Haze (Base Formulation)		D 1003	4.5 %
Gloss @ 45° (Base Formulation)		D 2457	84
Dart Impact		D 1709	100 g
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	24.1 MPa (3,500 psi) 18.6 MPa (2,700 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	440 % 830 %
1% Secant Modulus	M.D. T.D.	D 882 D 882	172 MPa (25,000 psi) 207 MPa (30,000 psi)

[a] Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.
[b] Unless noted otherwise, the test method is ASTM.
[c] Units are in SI or US customary units.

Notes

Test specimens for blown film: nominal thickness 1.25 mils; blow up ratio 2.5:1, die gap 35 mils.

Processing

Melt temperatures of 360°F – 400°F are recommended for Westlake EF412 with blow-up ratios of 1.5:1 or higher.

Regulatory Compliance

This product has some 21 CFR clearances. Please contact your Westlake Sales Representative for food contact statements.

Properties reported here are based on limited testing. Westlake makes no representation that the material in any particular shipment will conform exactly to the values given. Westlake and its marketing affiliates shall not be responsible for the use of this information, or of any product, method, or apparatus mentioned, and you must make your own determination of its suitability and completeness for your own use, for the protection of the environment, and for the health and safety of your employees and purchasers of your products. No warranty is made of the merchantability of fitness of any product, and nothing herein waives any of the Seller's conditions of sale.

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