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

Westlake Polyethylene™

EP413

Low Density Polyethylene

Technical Data Sheet

Applications

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

Product Description

Westlake EP413 is an LDPE resin recommended for clarity blown or cast film applications, as it has very good optical properties. It is suggested for bakery films, produce bags, and general purpose clarity applications.

Typical Physical Properties

Property [a]		Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)		D 1238	3.0 g/10 min
Density (Base Formulation)		D 1505	923 kg/m^3 (0.923 g/cm^3)
Haze (Base Formulation)		D 1003	3.7 %
Gloss @ 45° (Base Formulation)		D 2457	87
Dart Impact		D 1709	75 g
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	26.2 MPa (3,800 psi) 19.3 MPa (2,800 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	450 % 850 %
1% Secant Modulus	M.D. T.D.	D 882 D 882	186.2 MPa (27,000 psi) 220.6 MPa (32,000 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 EP413 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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