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

Westlake Polyethylene™

EF706

Low Density Polyethylene

Technical Data Sheet

Applications

- Cast film
- Foam

Product Description

Westlake EF706 is an LDPE resin suggested for blown or cast film applications where stiffness and machinability are important as well as for foam applications.

Typical Physical Properties

Property [a]		Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)		D 1238	2.30 g/10 min
Density (Base Formulation)		D 1505	923 kg/m³ (0.923 g/cm³)
Dart Impact		D 1709	85 g
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	24.1 MPa (3,500 psi) 19.3 MPa (2,800 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	400 % 850 %
1% Secant Modulus	M.D. T.D.	D 882 D 882	206.8 MPa (30,000 psi) 241.3 MPa (35,000 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 2.0 mils; blow up ratio 2.5:1, die gap 35 mils.

Processing

Melt temperatures of 380°F – 410°F are recommended for Westlake Chemical EF706 in blown film applications with blow-up ratios of 1.5:1 or higher. Melt temperatures of 520°F – 550°F are recommended for EF706 in cast film applications.

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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