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

Westlake Polyethylene™

EN1807

Low Density Polyethylene

Technical Data Sheet

Applications

- Shrink film
- Frozen food packaging

Product Description

Westlake EN1807 is a fractional-melt LDPE resin suggested for film applications requiring high impact and tear strength and very good optical properties, such as packaging for frozen foods.

Typical Physical Properties

Property [a]		Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.7 g/10 min
Density		D 1505	921 kg/m^3 (0.921 g/cm^3)
Peak Melting Point by DSC (T_m)		D 3418	112.2°C (234.0°F)
Haze		D 1003	4.0 %
Gloss @ 45°		D 2457	80
Dart Impact		D 1709	100 g
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	33 MPa (4,800 psi) 21.4 MPa (3,100 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	200 % 800 %
1% Secant Modulus	M.D. T.D.	D 882 D 882	220.6 MPa (32,000 psi) 276.8 MPa (40,000 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 1.5 mils; blow up ratio 2.4:1, die gap 50 mils.

Processing

Melt temperatures of 360°F – 400°F are recommended for Westlake Chemical EN1807 with blow-up ratios of 2.4:1 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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