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

Westlake Polyethylene™

HIFOR® LF74859

Linear Low Density Polyethylene

Technical Data Sheet

Applications

- General purpose blown film
- Heavy-duty films
- Fresh produce packaging

Product Description

HIFOR® LF74859 is a high-strength hexene LLDPE designed for blown film extrusion. This resin contains polymer processing aid, no slip, and high antiblock. Films produced with this resin exhibit exceptional toughness and high ultimate tensile strength.

Typical Physical Properties

Property [a]		Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.6 g/10 min
Density (Base Formulation)		D 1505	925 kg/m3 (0.925 g/cm3)
Dart Impact		D 1709	150 g
Haze (Base Formulation)		D 1003	17.0%
Gloss @ 45° (Base Formulation)		D 2457	55
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	61.4 MPa (8,900 psi) 43.4 MPa (6,300 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	750% 1,100%
1% Secant Modulus	M.D. T.D.	D 882 D 882	248.2 MPa (36,000 psi) 317.2 MPa (46,000 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 1.0 mil; blow-up ratio 2.5:1, die gap 100 mils.

Processing

Melt temperatures of 410°F - 450°F are recommended for HIFOR® LF74859 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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