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

Westlake Polyethylene™

HIFOR® LF2020

Linear Low Density Polyethylene

Technical Data Sheet

Applications

- Bags and sacks
- Trash bags and liners
- Co-extruded structures

Product Description

HIFOR® LF2020 is a hexene LLDPE with excellent physical properties and heat sealing characteristics which allow for down-gauging and blending with other materials. Typical applications include stretch films, heavy duty bags and sacks, and trash bags and liners.

Typical Physical Properties

Property [a]		Test Method [b]	Typical Value, Units [c]
Melt Index (Condition 190°C/2.16 kg)		D 1238	1.0 g/10 min
Density (Base Formulation)		D 1505	919 kg/m3 (0.919 g/cm3)
Dart Impact		D 1709	220 g
Haze (Base Formulation)		D 1003	15.0%
Elmendorf Tear Resistance	M.D. T.D.	D 1922 D 1922	300 gf 700 gf
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	40.7 MPa (5,900 psi) 28.3 MPa (4,100 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	670% 900%
1% Secant Modulus	M.D T.D.	D 882 D 882	206.8 MPa (30,000 psi) 248.2 MPa (36,000 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-440°F are recommended for HIFOR® LF2020 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.

Westlake Polymers LLC
2801 Post Oak Boulevard, Suite 600
Houston, Texas 77056
1.800.545.9577
www.westlake.com

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