

Technical Data Sheet

Applications

- Blend stock
- Food packaging
- Stretch wrap

Product Description

HIFOR® LF1040 is a butene LLDPE resin with excellent mechanical and sealing properties. It can be used in stretch film and can liner applications and is suitable for blending with LDPE in packaging applications.

Typical Physical Properties

Property ^a		Test Method ^b	Typical Value, Units ^c
Melt Index (Condition 190°C/2.16 kg)		D 1238	2.0 g/10 min
Density (Base Formulation)		D 1505	919 kg/m ³ (0.919 g/cm ³)
Dart Impact		D 1709	110 g
Haze (Base Formulation)		D 1003	13.0 %
Elmendorf Tear Resistance	M.D.	D 1992	60 gf
	T.D.	D 1992	360 gf
Tensile Strength @ Break	M.D.	D 882	27.6 MPa (4,000 psi)
	T.D.	D 882	21.4 MPa (3,100 psi)
Elongation @ Break	M.D.	D 882	700 %
	T.D.	D 882	900 %
1% Secant Modulus	M.D.	D 882	193 MPa (28,000 psi)
	T.D.	D 882	213.7 MPa (31,000 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 mils; blow up ratio 2.5:1, die gap 100 mils.

Processing

Melt temperatures of 410°F – 450°F are recommended for HIFOR® LF1040 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.

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