

Technical Data Sheet

Applications

- Blown film extrusion
- Heavy-duty sacks and films

Product Description

HIFOR® LF2005 is a hexene LLDPE resin designed for blown film extrusion of heavy-duty sacks and films. It contains a significant amount of process aid for ease of extrusion.

Typical Physical Properties

Property ^a		Test Method ^b	Typical Value, Units ^c
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.5 g/10 min
Density (Base Formulation)		D 1505	915.5 kg/m ³ (0.9155 g/cm ³)
Dart Impact		D 1709	500 g
Haze (Base Formulation)		D 1003	14.0%
Elmendorf Tear Resistance	M.D.	D 1922	400 gf
	T.D.	D 1922	650 gf
Tensile Strength @ Break	M.D.	D 882	50.3 MPa (7,300 psi)
	T.D.	D 882	33.8 MPa (4,900 psi)
Elongation @ Break	M.D.	D 882	500%
	T.D.	D 882	850%
1% Secant Modulus	M.D.	D 882	137.9 MPa (20,000 psi)
	T.D.	D 882	151.7 MPa (22,000 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 400°F-440°F are recommended for HIFOR® LF2005 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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