

Technical Data Sheet

Applications

- General purpose clarity packaging
- Medium duty produce bags
- Bakery bags
- Bags for textile films

Product Description

Westlake EF412 is a low-density polyethylene with very good optical and strength properties, making it an excellent choice for bakery films and packaging applications. It is available in a variety of slip and antiblock-containing versions as well as the barefoot EF412AA.

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	923 kg/m ³ (0.923 g/cm ³)
Haze (Base Formulation)	D 1003	4.5 %
Gloss @ 45° (Base Formulation)	D 2457	84
Dart Impact	D 1709	100 g
Tensile Strength @ Break	M.D. D 882 T.D. D 882	24.1 MPa (3,500 psi) 18.6 MPa (2,700 psi)
Elongation @ Break	M.D. D 882 T.D. D 882	440 % 830 %
1% Secant Modulus	M.D. D 882 T.D. D 882	172 MPa (25,000 psi) 207 MPa (30,000 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 1.25 mils; blow up ratio 2.5:1, die gap 35 mils.

Processing

Melt temperatures of 360°F – 400°F are recommended for Westlake EF412 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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