

Technical Data Sheet

Applications

- Shrink film
- Frozen food packaging

Product Description

Westlake EN1807 is a fractional-melt LDPE resin suggested for film applications requiring high impact and tear strength and very good optical properties, such as packaging for frozen foods.

Typical Physical Properties

Property ^a		Test Method ^b	Typical Value, Units ^c
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.7 g/10 min
Density		D 1505	921 kg/m ³ (0.921 g/cm ³)
Peak Melting Point by DSC (T _m)		D 3418	112.2°C (234.0°F)
Haze		D 1003	4.0 %
Gloss @ 45°		D 2457	80
Dart Impact		D 1709	100 g
Tensile Strength @ Break	M.D. T.D.	D 882 D 882	33 MPa (4,800 psi) 21.4 MPa (3,100 psi)
Elongation @ Break	M.D. T.D.	D 882 D 882	200 % 800 %
1% Secant Modulus	M.D. T.D.	D 882 D 882	220.6 MPa (32,000 psi) 276.8 MPa (40,000 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 1.5 mils; blow up ratio 2.4:1, die gap 50 mils.

Processing

Melt temperatures of 360°F – 400°F are recommended for Westlake Chemical EN1807 with blow-up ratios of 2.4:1 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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