



# Westlake Polymers

Enhancing your life every day

## EN1807

EN1807AA = 1810E or 1810F

### Application/Uses

- Shrink film
- Frozen food packaging

### Product Description

WESTLAKE polyethylene EN1807 is a fractional-melt low-density formulation suggested for film applications requiring high impact strength, high tear strength, and very good optical properties, such as packaging for frozen foods.

### Typical Physical Properties

Property <sup>a</sup>		Test <sup>b</sup> Method	Typical Value, Units <sup>c</sup>
Melt Index (Condition 190°C/2.16 kg)		D 1238	0.7 g/10 min
Density		D 4883	921 kg/m <sup>3</sup> (0.921 g/cm <sup>3</sup> )
Haze		D 1003	4.0%
Gloss @ 45°		D 2457	80
Impact		D 1709A	110 g
Tensile Strength @ Break	M.D.	D 882	33 MPa (4800 psi)
	T.D.	D 882	22 MPa (3100 psi)
Elongation (%)	M.D.	D 882	200%
	T.D.	D 882	800%
1% Secant Modulus	M.D.	D 882	220 MPa (32000 psi)
	T.D.	D 882	274 MPa (40000 psi)

<sup>a</sup> Unless noted otherwise, all tests are run at 23°C (73°F) and 50% relative humidity.

<sup>b</sup> Unless noted otherwise, the test method is ASTM.

<sup>c</sup> 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.

### FDA

This product has some 21 CFR clearances. Please contact Westlake Product Regulatory Department for statements.

### PROCESSING

Melt temperatures of 360° F – 380° F are recommended for Westlake EN1807 with blow-up ratios of 2.4:1 or higher.

### COMMENTS

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.

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