# 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[a] | | Test[b] Method | Typical Value, Units[c] |
|---|---|---|---|
| Melt Index (Condition 190°C/2.16 kg) | | D 1238 | 0.7 g/10 min |
| Density | | D 4883 | 921 kg/m$^3$ (0.921 g/cm$^3$) |
| 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) |

[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.

**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.