



Westlake Polymers LP

EC 474

Low Density Polyethylene

Typical Physical Properties

PROPERTY	VALUE	ASTM METHOD
MELT INDEX (gm/10 min.)	8.0	D 1238
DENSITY (gm/cc)	0.918	D 1505
ULTIMATE TENSILE (psi)	1,400	D 638
ELONGATION (%)	400	D 638
TENSILE MODULUS (psi)	16,000	D 1709
VICAT SOFTENING (°C)	88	D 1525
PERMABILITY		
Gas (cc-mil / 100 sq. in. / 24hr)		
N ₂ @ 23°C	200	D 1434
O ₂ @ 23°C	500	D 1434
CO ₂ @ 23°C	1,800	D 1434
WVTR (gm-mil / 100 sq. in. / 24hr) @ 37.8°C	1	D 96(E)

Applications

Medium and Light Weight
Coatings and Laminations

Coated on Substrates to
Provide Heat Sealability

Hot Melt Laminating
Adhesive

General Purpose Coating

Properties

Excellent Adhesion

Very Low Neck-in

Excellent Heat Sealability

Very Good Drawdown

Good Moisture Barrier

NOTES: KOSHER APPROVED

FDA

This material complies with FDA regulations in 21 CFR, section 177.1520, paragraph C, section 2.1, for use in articles that contact food.

PROCESSING

Westlake Polymers' EC 474 is one of the most easily processed polyethylene coatings. Excellent draw and relatively low viscosity permits high line speeds at weights as low as 4 lbs. / 3,000 sq. ft. Low sensitivity to fluctuations in melt temperature allows Westlake Polymers' EC 474 to be easily processed at melt temperatures of 575° to 625°F. For heavy coatings onto cellophane 570°F is recommended. Neck-in is minimized, odor and smoke is reduced.

NOTICE

The data listed represents average values and are believed to be reliable. They are given for information; no guarantee of their accuracy is made; however, and the product is sold upon condition that purchasers shall make their own tests to determine the characteristics of the product and the suitability of the product for their particular purposes.

Westlake makes no representation or warranty of any kind, express or implied, with respect to this product, whether as to merchantability, fitness for particular purpose or otherwise.

WESTLAKE GROUP LP

2801 Post Oak Blvd Suite 600 Houston, Texas
Customer Service: 1-800-545-9577

WESTLAKE POLYMERS LP

3508 Cities Service Hwy Sulphur, Louisiana 70663
Technical Service: 337-583-6897

Web: www.westlakegroup.com

Date: 02/05/02

Safety Considerations

Material Safety Data Sheets (essentially similar to OSHA Form 20) about Westlake polyethylene resins are available from your Westlake representative. Safety information should be requested from the supplier of any products prior to working with it.

The comments on health and safety are pertinent only to the Westlake resins as supplied. The effect of additives and processing aids in fabrication must be investigated separately.

Health And Safety

Polyethylene resins are among the most commercial polymers and constitute no hazard in normal handling from skin contact or ingestion. Compliance letters for specific regulated uses can be obtained through your Westlake representative.

When processing Westlake resins, workers should be protected from possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent possible mechanical or thermal injury to the eyes. All fabrication areas should have adequate ventilation to carry away fumes or vapors.

Combustibility

Polyethylene resins will burn when supplied with adequate amounts of heat and oxygen. Resin should be handled and stored away from contact with direct flames and/or other ignition sources. Combustion of polyethylene resins give off high heat and may generate a dense black smoke. Fires can be extinguished by conventional means with water and water fog preferred. In enclosed areas, fire fighters should be provided with self-contained breathing apparatus.

Disposal

In accordance with state and local regulations, polyethylene resins can be normally be disposed of by either landfill or incineration. As landfill, polyethylene resin is inert and does not degrade quickly. As with the disposal of any wastes, be certain to meet all applicable federal, state, and local regulations.

With properly controlled incineration, particulate or gaseous discharge into the air can normally be maintained within allowable levels. Incinerators should be designed to handle the high heat of burning polyethylene.

The preceding statements are true for Westlake resins as supplied. If fillers, processing aids, or other materials have been added, their possible influence on handling and disposal must be judged separately.

The information is furnished by Westlake only as assistance in the proper use and disposal of its products. Westlake assumes no liability for the accuracy of the information.
