Westlake Polymers LP

EF 412

Low Density Polyethylene

Typical Physical Properties

PROPERTY		VALUE	ASTM METHOD	
MELT INDEX (gm/10 min.)		2.0	D	1238
*DENSITY (gm/cc)		0.923	D	1505
*HAZE (%)		4.0	D	1003
*SPECULAR GLOSS @ 45°		76	D	2457
DART IMPACT (gms)		100	D	1709
ULTIMATE TENSILE (psi)	MD	3,500	D	882
	TD	2,700	D	882
ELONGATION (%)	MD	350	D	882
	TD	700	D	882
1% SEC. MODULUS (psi)	MD	25,000	D	882
	TD	29,000	D	882

Applications

General Purpose Clarity Applications

Medium Duty Produce Bags

Bakery Bags

Bags for Textile Items

Properties

Good Haze and Gloss

Good Strength

Good Heat Sealability

Excellent Processability

Typical film property as measured on a 1.25 mil blown film sample fabricated at a 2.5:1 B.U.R.
**Unformulated polymer only.*

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 non-alcoholic food. Maximum film thickness is 0.0047 in.

PROCESSING

Extrusion melt temperatures of 360° to 390°F are recommended for Westlake Polymers' EF 412 with blow-up ratios of 1.5:1 or higher.

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

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.