LK Packaging
6000 Sheila Street
Commerce, CA 90040-2405

PRODUCT SPECIFICATION AND DATA SHEET

LINEAR LOW DENSITY POLYETHYLENE BAGS (TUF-R™)

LK Packaging's Linear Low Density Polyethylene bags are manufactured using 100% virgin polyethylene resin and meet the following requirements

- Manufactured using a unique blend of low density and linear low density polyethylene resin
- Complies with the following FDA regulations:
  21 CFR 175.320, 21 CFR 177.1010
  21 CFR 177.1520, 21 CFR 177.1350
  21 CFR 178.2010, 21 CFR 178.3295
  21 CFR 178.3570 and 21 CFR 179.45
- No Ozone depleting chemicals are used in the manufacture of this product.
- No recycled content in product
- Chemical Composition is carbon and hydrogen
- Does not contain mercury, sulfur, nitrogen, heavy metals, BPA (biphenyl A), polyvinyl chlorides, polystyrenes, polycarbonates, phthalates, BHT (butylated hydroxyl toluene), DEHA (diethyl hydroxylamine), DEHP (di (2-ethylhexyl) phthalate), PFOA (perfluorooctanoic acid), PFOS (perfluorooctane sulfonates), PBDE (poly brominated diphenyl ether) or PBB (poly brominated biphenyl).
- Dimensions stated within industry standard specifications
- Net measurement based on inside dimensions
- Thickness of bag is the specification with not more than +/- 10% variance
- Available standard (Replaces .015-.002) and Heavy Duty replaces (.003-.004)
- Contains no animal derivative ingredients
- Complies with RoHS 3 (Restrictions of Hazardous Substances)
- Complies with China RoHS 2
- Complies with WEEE (Waste Electrical & Electronic Equipment)
- Complies with CMM (China's Management Methods)
- Complies with REACH (**R**egistration, **E**valuation, **A**uthorisation and Restriction of **Ch**emical Substances).
- Complies with California Proposition 65 (Safe Drinking and Toxic Enforcement Act of 1986)
- Complies with California SB657 Slavery & Human Trafficking Legislation
- Complies with HR 4173 Wall Street Reform & Consumer Protection Act "Conflict Minerals "
- Complies with CONEG Legislation

PROPERTY [a]	TEST METHOD	TYPICAL VALUE, UNITS [c]
RESIN PROPERTIES		
Melt Index (Condition 190°C/C2.16 kg.)	D1238	1.0g/10min.
Density	D4883	920 kg/m^3 (0.920 g/cm^3)
FILM PROPERTIES		
Thickness of Film tested		1.0 mils
Haze	D 1003	14%
Gloss @ 45°	D 2457	45
Dart Impact	D 1709A	170g
Seal Initiation Temperature [d]	EASTMAN	102°C (215°F)
Oxygen Permeability Rate, cc/100 sq in/24 hr @ 73 degree F, 0% RH		450 ~ 500
ELMENDORF TEAR RESISTANCE		
M.D	D 1922	325gf
T.D	D 1922	650gf
TENSILE STRENGTH @ BREAK		
M.D	D 882	50 Mpa (7300 psi)
T.D	D 882	39 Mpa (5700 psi)
TENSILE STRENGTH @ YIELD		
M.D	D 882	11 Mpa (1600 psi)
T.D	D 882	10 Mpa (1500 psi)
ELOGONGATION @ BREAK		
M.D	D 882	750%
T.D	D 882	1000%
TENSILE MODULUS, 1% SECANT		
M.D	D 882	220 Mpa (32000 psi)
T.D	D 882	241 Mpa (35000 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.
[e] Units are in SI or US Customary units.
[d] Seal initioation temperature is the temperature at which 200g/inch seal strength is achieved.

The data and information represented herein refer to typical values obtained in our manufacturer's laboratories. Since processing variables are a major factor in product performance, this information should serve as a guide. There is no implied warranty of merchantability or fitness for a particular purpose. LK Packaging assumes no obligation, express or implied, or liability for use of the information and data represented.

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