

## PRODUCT SPECIFICATION AND DATA SHEET

### LINEAR LOW DENSITY POLYETHYLENE BAGS (TUF-R™)

Elkay Plastics Company'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), 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 WEEE (Waste Electrical & Electronic Equipment)
- Complies with CMM (China's Management Methods)
- Complies with REACH (Registration, Evaluation, Authorisation and Restriction of Chemical 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 <sup>A</sup>	TEST METHOD	TYPICAL VALUE, UNITS <sup>C</sup>
<b>RESIN PROPERTIES</b>		
Melt Index (Condition 190°C/C2.16 kg.)	D1238	1.0g/10min.
Density	D4883	920 kg/m <sup>3</sup> (0.920 g/cm <sup>3</sup> )
<b>FILM PROPERTIES</b>		
Thickness of Film tested		1.0 mils
Haze	D 1003	14%
Gloss @ 45 °	D 2457	45
Dart Impact	D 1709A	170g
Seal Initiation Temperature <sup>d</sup>	EASTMA N	102°C (215°F)
<b>ELMENDORF TEAR RESISTANCE</b>		
M.D	D 1922	325gf
T.D	D 1922	650gf
<b>TENSILE STRENGTH @ BREAK</b>		
M.D	D 882	50 Mpa (7300 psi)
T.D	D 882	39 Mpa (5700 psi)
<b>TENSILE STRENGTH @ YIELD</b>		
M.D	D 882	11 Mpa (1600 psi)
T.D	D 882	10 Mpa (1500 psi)
<b>ELONGATION @ BREAK</b>		
M.D	D 882	750%
T.D	D 882	1000%
<b>TENSILE MODULUS, 1% SECANT</b>		
M.D	D 882	220 Mpa (32000 psi)
T.D	D 882	241 Mpa (35000 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. <sup>d</sup> Seal initiation temperature is the temperature at which 200g/inch seal strength is achieved.		