

PRODUCT SPECIFICATION AND DATA SHEET
LOW DENSITY POLYETHYLENE

- Manufactured from 100% virgin Low Density polyethylene resin.
- Meet Requirements for Type I (normal impact strength) or Type II (for 3, 4 and 6 mil) (high impact strength), Class 2 (food contact) Grade B (medium slip), Finish 1 (untreated) under Federal Specification A-A-3174
- 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, 21 CFR 179.45
- Products are chemically acceptable for use in temperatures below 65° C as packaging material in direct contact with meat and poultry food products prepared under Federal Meat **Military Specification DTL-117H**, Type III, Class B, Style 2, referring to Low Density Virgin Polyethylene.
- Bag measurements are based on inside dimensions and meet industry standard tolerances.
- **Chemical Composition**: Carbon and Hydrogen. Contains no latex, mercury, sulfur, nitrogen, silicon, 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).
- Contains no animal derivative ingredients
- Complies with RoHS (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).

PROPERTY CONDITIONS	ASTM TEST METHOD	LDPE TYPICAL VALUES
Resin Properties		
Melt Index, g/10 min	D 1238	2.0 to 2.5
Density, g/cm ³	D 1505	.922
Blown Film Properties		
Elongation at Break, %	D 638	635
Elmendorf Tear Strength, g/mil	D 1922	MD 400 - 500 TD 175 - 250
Tensile Strength Yield, MPa	D 882	MD 11 - 14.5 TD 11.5 - 12
Tensile Strength Yield, psi	D 638	1700 - 2100
Tensile Strength Break, MPa	D 882	MD 21 - 22 TD 16 - 17.2
Ultimate Tensile, MPa	D 882	MD 21 - 25 TD 16 - 17.6
Modulus of Elasticity, %	D 882	MD 290 - 350 TD 560 - 600
Elongation at Break, %	D 882	MD 200 - 290 TD 550 - 560
Impact Strength, Dart, g.	D1709	80 - 95
Coefficient of Friction	D 1894	.1 - .18
Haze, %	D 1003	5 to 8.5
Gloss, 45°	D 2457	60 - 105
Service Temperature - °F		-60 - 180
Heat Seal Temperature - °F		260 - 350
Water Vapor Transmission Rate, G/m ² * 24hour (g/100 sq. in * 24 hour)	ASTM F 372	18.6 (1.2)
Oxygen Permeability Rate, cm ³ * mm/m ² * 24 hour * atm (cm ³ * mil/m ² * 24 hour * atm)	ASTM D 1434	200 (7,650)