

LLDPE**LLDPE Baofeng 7042****LINEAR LOW DENSITY POLYETHYLENE (LLDPE)**

This is a butene-comonomer linear low-density polyethylene grade designed for the blown-film process. It offers high gloss and excellent draw-down in blown-film applications. Films made from this resin have good tensile and toughness properties.

Typical Application	Product Characteristics	International Compliance
• Blown film • Lamination film • Garment film • General packaging • Freezer film • Institutional can liners • Produce bags on a roll • Stretch film • Agricultural film	• High gloss • Excellent draw-down • Good tensile strength and toughness • Stable, efficient blown-film processability	• Food-contact compliance under U.S. FDA 21 CFR 177.1520 documented at the producer level

Film Properties

Properties	Test Method	Typical Value	Unit
Dart Drop Impact	ASTM D1709A	66	g
Elmendorf Tear Strength (MD/TD)	ASTM D1922	85/400	g
Gloss (45°)	ASTM D2457	76	
Haze	ASTM D1003	4.4	%

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Index (190°C/2.16kg)	ASTM D1238	2	g/10 min
Density	ASTM D792	0.918	g/cm ³
Peak Melting Temperature	Internal Method	121	°C
Tensile Stress at Yield (MD/TD)	ASTM D882	11/10	MPa
Tensile Stress at Break (MD/TD)	ASTM D882	49/29	MPa
Elongation at Break (MD/TD)	ASTM D882	600/800	%
Secant Modulus, 1% Secant (MD/TD)	ASTM D882	190/220	MPa

Processing Guidelines

Film properties are measured on 25.4 µm (1.0 mil) thick blown film at a blow-up ratio of 2.5.

1. "7042" is a widely produced LLDPE blown-film grade designation manufactured to an equivalent specification by multiple regional producers; the values above are typical published values for this grade code and are consistent with the density (0.920 g/cm³) and melt index (2.0 g/10 min) reported for this producer's material.
2. Typical values per the published specification for this grade designation; grade-specific certificate of analysis supplied per lot at order.
3. The nominal properties reported herein are typical of the product and do not reflect normal testing variance; they should not be used for specification purposes.