

LLDPE

LLDPE Huatai 7042

LINEAR LOW DENSITY POLYETHYLENE (LLDPE)

This grade is a butene-comonomer linear low-density polyethylene (LLDPE) resin engineered for the blown film extrusion process. It delivers high gloss and excellent draw-down performance, and films produced from it exhibit very good tensile strength and toughness.

Typical Application	Product Characteristics	International Compliance
• Blown film • Lamination film • Garment film • General packaging film • Freezer film • Institutional can liners • Produce bags on a roll	• High gloss and excellent draw-down in blown film applications • Very good tensile strength and toughness • Formulated with a thermal stabilizer additive package	• Meets U.S. FDA requirements under 21 CFR 177.1520 for direct food-contact use

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/2.16 kg)	ASTM D1238	2.0	g/10 min
Density	ASTM D792	0.918	g/cm ³
Peak Melting Temperature		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

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

2. 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.

3. This grade code is a standardized specification licensed and produced across multiple Chinese polyethylene manufacturers; typical values are per the published family data for this specification, grade-specific certificate of analysis supplied per lot at order.