

LDPE**LDPE 2420H****LOW DENSITY POLYETHYLENE (LDPE)**

This resin is a non-additivated low-density polyethylene produced by a high-pressure tubular process and supplied in pellet form. It offers easy processability, excellent optical properties, and a low gel level, making it suitable for applications that require:

Typical Application	Product Characteristics	International Compliance
- General-purpose blown and cast film - Shrink film - High-transparency film - Food packaging film - Foam applications - Bags and pouches	- Good heat seal - Excellent optical properties (low haze, high gloss) - Good processability - Low gel level	- Complies with US FDA 21 CFR 177.1520 - Complies with Commission Regulation (EU) 10/2011

Film Properties

Properties	Test Method	Typical Value	Unit
Max. Tensile Strength MD	ISO 527	20	MPa
Max. Tensile Strength TD	ISO 527	18	MPa
Ultimate Elongation MD	ISO 527	460	%
Ultimate Elongation TD	ISO 527	660	%
Dart Drop Impact (50 µm film)	ASTM D1709	110	g
Haze	ASTM D1003	6	%
Gloss (20°)	ASTM D2457	85	-

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Flow Rate (190°C/2.16 kg)	ISO 1133	1.9	g/10 min
Density	ISO 1183	0.924	g/cm ³
Melting Temperature	ISO 11357	112	°C
Vicat Softening Point	ASTM D1525	94	°C
Tensile Modulus	ISO 527-1/-2	260	MPa
Tensile Stress at Yield	ISO 527-1/-2	11.0	MPa

Processing Guidelines

Recommended processing (melt) temperature range: 160-200°C. Film properties are based on a 50 µm blown film extruded at a blow-up ratio of 2.0.

1. 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.
2. This grade code is a widely used LDPE film designation produced under licensed high-pressure tubular technology by multiple regional petrochemical plants. Typical values per the producer's published family data for this grade code; grade-specific certificate of analysis supplied per lot at order.