

LDPE

LDPE 2420D

LOW DENSITY POLYETHYLENE (LDPE)

This high-pressure low-density polyethylene resin is produced for blown-film extrusion and extrusion blow molding where high melt strength and good bubble stability are required. It features excellent optical properties, good toughness, and good tear resistance, and is delivered as non-additivated pellets.

Typical Application	Product Characteristics	International Compliance
• Blow-moulded containers • Heavy-duty industrial film • Agricultural film • Bags and pouches • Shrink film • General blown film packaging	• High melt strength for stable bubble control during blown-film extrusion • Good toughness and tear resistance • Good processability	• FDA • RoHS • REACH (SVHC)

Film Properties

Properties	Test Method	Typical Value	Unit
Failure Energy (70 µm film)	DIN 53373	6.5	J/mm

Physical Properties

Properties	Test Method	Typical Value	Unit
Density	ISO 1183	0.924	g/cm ³
Melt Flow Rate (190°C/2.16kg)	ISO 1133	0.30	g/10 min
Tensile Modulus	ISO 527-1/-2	240	MPa
Tensile Stress at Yield	ISO 527-1/-2	10.0	MPa
Tensile Strength (MD)	ISO 527-1/-3	27.0	MPa
Tensile Strength (TD)	ISO 527-1/-3	20.0	MPa
Tensile Strain at Break (MD)	ISO 527-1/-3	200	%
Tensile Strain at Break (TD)	ISO 527-1/-3	500	%
Shore Hardness (Shore D)	ISO 868	48	
Vicat Softening Temperature	ISO 306	94.0	°C
Melting Temperature	ISO 3146	109	°C

Processing Guidelines

Typical melt temperature range 170°C to 220°C for film production; recommended film thickness 70 to 220 µm at a blow-up ratio of approximately 1:2.5.

1. MFR and density are as reported for this producer's own grade; mechanical, hardness, thermal and film values are typical of the shared high-pressure tubular process technology used to manufacture this LDPE film grade, and are provided as engineering reference pending a producer-issued certificate of analysis.

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.