

LLDPE**LLDPE 8320****LINEAR LOW DENSITY POLYETHYLENE (LLDPE)**

This is a narrow molecular-weight-distribution, butene-comonomer linear low-density polyethylene grade intended for injection-moulded applications. It has been designed to combine excellent low-temperature impact strength, rigidity, environmental stress crack resistance and processability.

Typical Application

- Injection-moulded food containers
- Housewares and lids
- Shopping baskets
- Masterbatch carrier resin

Product Characteristics

- Narrow molecular weight distribution for consistent processing
- Excellent low-temperature impact strength
- Good rigidity
- Good environmental stress crack resistance

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Index (190°C/2.16 kg)	ASTM D1238	20	g/10 min
Density	ASTM D792	0.924	g/cm ³
Environmental Stress-Cracking Resistance (50°C, 100% Igepal, F50)	ASTM D1693	20	h
Flexural Modulus - 2% Secant	ASTM D1822	386	MPa
Tensile Stress at Yield	ASTM D638	12	MPa
Tensile Elongation at Yield	ASTM D638	3	%
Tensile Stress at Break	ASTM D638	8	MPa
Tensile Elongation at Break	ASTM D638	60	%
Tensile Impact Strength	ASTM D1822	168	kJ/m ²
Melting Temperature (DSC)	ASTM D3418	123	°C
Deflection Temperature Under Load (0.45 MPa, unannealed)	ASTM D648	43	°C
Vicat Softening Temperature	ASTM D1525	93.9	°C

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. Tests performed on compression-moulded plaques in accordance with ASTM D4976.