

DOW LDPE 150E

Low Density Polyethylene Resin

DOW LDPE 150E Low Density Polyethylene Resin can be readily extruded using conventional blown film techniques utilising melt temperatures between 170 and 230 °C.

DOW LDPE 150E Low Density Polyethylene Resin, when properly fabricated, shows a good combination of processability, stiffness and physical properties.

DOW LDPE 150E Low Density Polyethylene Resin should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications.

Applications:

- Heavy duty industrial film

ASTM and ISO Properties ²

Physical	Nominal Value	Unit	Test Method
Density -Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.3	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Tensile Modulus ³			ISO 527-1, -3
(--)	MD: 128	MPa	
(--)	TD: 128	MPa	
Tensile Stress at Yield ³			ISO 527-1, -3
(--)	MD: 9.20	MPa	
(--)	TD: 7.60	MPa	
Tensile Strength ³			ISO 527-1, -3
(--)	MD: 21.0	MPa	
(--)	TD: 20.5	MPa	
Elongation @ Break MD ³	470	%	ASTM D882
Elongation @ Break TD ³	530	%	ASTM D882
Dart Drop Impact (Method A, 100 μ)	430	gm	ISO 7765-1
Elmendorf Tear Str MD ³	270	gm	ASTM D1922
Elmendorf Tear Str TD ³	480	gm	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Point	96.0	°C	ASTM D1525

Additional Properties

Tensile Modulus TD, ISO 527-3, 100μ, 2% Secant: 128 MPa

Tensile Modulus MD, ISO 527-3, 100μ, 2% Secant: 128 MPa

Notes

1When used unmodified for the manufacture of food contact articles, DOW LDPE 150 E will comply with Food Additive Regulations FDA 21 CFR 177.1520 under the U.S. Food, Drug and Cosmetic Act. Such uses are subject to good manufacturing practices and any other limitations which are part of the statute or regulations. These should be consulted for complete details.

2Typical properties: these are not to be construed as specifications.

3100 μ