

DOW™ LLDPE 1613

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Dow LLDPE 1613 is a Linear Low Density Polyethylene Resin, 1-hexene copolymer, produced in the Solution process. This resin is designed to be used in blown extrusion to produce films for industrial applications and consumer packaging.

Complies with:

U.S. FDA, 21 CFR 177.1520(c)3.2a

Europe Commission Regulation (EU) No 10/2011 (See Notes)

Consult the regulations for complete details.

General Information			
Agency Ratings	EU No 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.3	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	Internal Method
Film Puncture Resistance	10.1	J/cm³	
Secant Modulus			
2% Secant, MD : 51 µm	202	MPa	ASTM D882
2% Secant, TD : 51 µm	231	MPa	
Tensile Strength			
MD : Yield,51 µm	11.5	MPa	ASTM D882
TD : Yield,51 µm	12.4	MPa	
MD : Break, 51 µm	36.2	MPa	
TD : Break, 51 µm	36.6	MPa	ASTM D882
Tensile Elongation			
MD : Break, 51 µm	880	%	
TD : Break, 51 µm	950	%	ASTM D1709A
Dart Drop Impact (51 µm)	260	g	
Elmendorf Tear Strength			
MD : 51 µm	750	g	ASTM D1922
TD : 51 µm	1000	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.8 µm)	46		ASTM D2457
Haze (50.8 µm)	20	%	ASTM D1003

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