

# DOW™ LDPE 320E

Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW LDPE 320E is a low melt index, low density polyethylene resin. DOW LDPE 320E is specially developed for high transparency and gloss. The improved optical properties can also be seen in LLDPE blends, especially in structures with high LDPE content. Due to its excellent drafting performance, it can be used for processing some thinner structural parts.

application field:

composite film for food packaging, display packaging and consumer goods packaging

main characteristics:

Excellent processability and drafting performance

Used in applications that require excellent optical properties, it can be used alone or blended with LLDPE

DOW LDPE 320E should meet the requirements of the following regulations:

U.S. Food and Drug Administration Regulation 21 CFR 177.1520 (c) 2.2

EU, No 10/2011

please check the regulations for complete details.

slip agent content: 0 ppm

opening agent content: 0 ppm

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.925	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction	0.50 - 0.70		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Energy (50 µm)	1.70	J	Internal method
Film Puncture Force (50 µm)	50.0	N	Internal method
Film Puncture Resistance (50 µm)	4.00	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 50 µm, blown film	175	MPa	ASTM D882
2% secant, TD: 50 µm, blown film	180	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	22.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	360	%	ASTM D882

TD: Broken, 50 µm, blown film	550	%	ASTM D882
Dart Drop Impact (50 µm, Blown Film)	120	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	460	g	ASTM D1922
TD: 50 µm, blown film	290	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	71		ASTM D2457
Haze (50.0 µm, Blown Film)	6.8	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:  
 螺杆类型:通用  
 输出:29 kg/h  
 模具直径:150 英寸  
 放大比:2.5  
 螺杆速度:74 rpm

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