

DOW™ LDPE 515E

Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW LDPE 515E Low Density Polyethylene Resin is a 3.2 melt index, medium density LDPE resin for the high-speed tissue overwrap market offering a good balance between optical properties such as gloss and haze, stiffness and low COF. This product contains slip and antiblock additives.

Note: DOW LDPE 515E Low Density Polyethylene Resin should comply with FDA regulation 177.1520(c)2.2 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please contact you nearest Dow office for food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

Packaging of soft products such as hand tissues, toilet tissues, feminine hygiene products

High clarity tissues overwrap

General Information			
Additive	Antiblock		
	Slip		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.931	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.2	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	ISO 527-3
Film Toughness - MD (30 µm)	47.0	J/cm³	
Tensile Stress			
MD : Yield, 30 µm	15.3	MPa	ISO 527-3
TD : Yield, 30 µm	15.1	MPa	
MD : Break, 30 µm	17.5	MPa	
TD : Break, 30 µm	15.2	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 30 µm	300	%	
TD : Break, 30 µm	70	%	
Dart Drop Impact (30 µm)	120	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 30 µm	130	g	
TD : 30 µm	190	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 µm)	71		ASTM D2457
Haze (30.0 µm)	7.0	%	ISO 14782

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