

DOWLEX™ 2645

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™2645 polyethylene resin is used in the production of many industrial and consumer films (although it is not recommended for forage stretch films). The film prepared with this resin combines excellent toughness and tear resistance. The product also has very good processing performance on ordinary LLDPE processing equipment.

Application field:

Various industrial and consumer films

Meet the following regulatory requirements:

European Union (EU) No 10/2011

U.S. Food and Drug Administration (U.S. FDA) FCN 741

please refer to the regulations for detailed information.

General Information			
Agency Ratings	FDA FCN 741		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Energy (50 µm)	5.80	J	ASTM D5748
Film Puncture Force (50 µm)	76.0	N	ASTM D5748
Tensile Modulus			ISO 527-3
2% secant, MD: 50 µm	139	MPa	ISO 527-3
2% secant, TD: 50 µm	147	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm	7.50	MPa	ISO 527-3
TD: Yield, 50 µm	6.30	MPa	ISO 527-3
MD: Break, 50 µm	39.0	MPa	ISO 527-3
TD: Break, 50 µm	40.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 50 µm	560	%	ISO 527-3
TD: Break, 50 µm	670	%	ISO 527-3
Dart Drop Impact (50 µm)	480	g	ISO 7765-1/A
Elmendorf Tear Strength			ASTM D1922
MD : 50 µm	560	g	ASTM D1922
TD : 50 µm	910	g	ASTM D1922

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature ¹	107	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm)	59		ASTM D2457
Haze (50.0 µm)	10	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	
Extrusion instructions			
吹塑薄膜树脂的制造条件: 模具间隙:1.5 - 2.5 mm 熔体温度:190 至 240°C 放大比:1.5 比 3.1 建议的厚度范围:10 至 150 µm			
NOTE			

1. Blow molded film, BUR 2.5,1.5mm mold clearance.

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