

TUFLIN™ HS-7098 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

TUFLIN™HS-7098 NT 7 is an ethylene-hexene copolymer. This linear low density polyethylene (LLDPE) resin is used for casting and blown film processing, such as garbage bags, lining of industrial boxes and retail bags. The film extruded by HS-7098 Natural 7 has excellent toughness, tensile strength and tensile rate, excellent tear resistance and puncture resistance, and is easy to heat seal.

Main features:

Hexene linear low density resin

high strength

Excellent toughness

Comply with the requirements of US Food and Drug Administration Regulation 21 CFR 177.1520(c)3.1a (with restrictions). When applied in the field of contact with food, an additive in the product makes it only in the form of a film.

General Information			
Additive	Anti-caking agent (6250 ppm)		
	Sliding agent (1000 ppm)		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.923	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882
MD: Break, 25 µm	44.8	MPa	ASTM D882
TD: Break, 25 µm	34.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	500	%	ASTM D882
TD: Break, 25 µm	700	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	200	g	ASTM D1709A
Elmendorf Tear Strength ²			ASTM D1922
MD : 25 µm	310	g	ASTM D1922
TD : 25 µm	800	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gardner Gloss (45°, 25.4 µm)	45		ASTM D523
Haze (25.4 µm)	16	%	ASTM D1003
Extrusion	Nominal Value	Unit	

Melt Temperature	231	°C
Extrusion instructions		
吹塑薄膜的制造条件: 螺杆尺寸:2.5 英寸 (63.5 mm) 30:1 L/D 螺杆类型:DSBII 模具间隙:70 密尔 (1.8 mm) 熔体温度:448 °F (231 °C) 输出:模具周长的 6 磅/小时/英寸 模具直径:6 英寸 放大比:2.5 比 1 螺杆速度:78 rpm 冷冻线高度:25 英寸 (635 mm) 1% 割线模量		
NOTE		
1.	F50	
2.	Method B	

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