

TUFLIN™ HS-7028 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

TUFLIN™ HS-7028 NT 7 Linear Low Density Polyethylene Resin is an ethylene-hexene copolymer, linear low density (LLDPE) resin designed for good strength and processability. This product is recommended for general purpose packaging applications from thick gauge, heavy duty bags to high speed thin gauge applications

Hexene Linear Low Density Resin

General Purpose Resin

Excellent Strength

An additive present in this product limits use only in film form for food contact applications.

Complies with:

U.S. FDA 21 CFR 177.1520 (c) 3.1a (with Restrictions)

European Commission Regulation (EU) No 10/2011

Consult the regulations for complete details.

General Information			
Agency Ratings		FDA 21 CFR 177.1520(c) 3.1a	
		Europe 10/1/2011 12:00:00 AM	
Forms		Particle	
Processing Method		Blow film	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	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	Internal method
Film Puncture Energy	4.52	J	Internal method
Film Puncture Force	48.9	N	Internal method
Film Puncture Resistance	24.8	J/cm³	Internal method
Film strength			ASTM D882
MD	82.7	J/cm³	ASTM D882
TD	82.7	J/cm³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	262	MPa	ASTM D882
2% secant, MD	214	MPa	ASTM D882
1% secant, TD	255	MPa	ASTM D882
2% secant, TD	214	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	12.1	MPa	ASTM D882
TD: Yield	11.7	MPa	ASTM D882
MD: Fracture	37.9	MPa	ASTM D882
TD: Fracture	37.9	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Fracture	500	%	ASTM D882
TD: Fracture	500	%	ASTM D882
Dart Drop Impact	200	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD	380	g	ASTM D1922
TD	600	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	109	°C	ASTM D1525
Melting Temperature (DSC)	124	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	34		ASTM D2457
Haze	18	%	ASTM D1003

Extrusion instructions

吹塑薄膜的制造条件:
 螺杆尺寸:3.5 英寸 (63.5 mm)
 螺杆类型:DSBII
 模具间隙:70 密尔 (1.8 mm)
 熔体温度:415 °F
 输出:模具周长的 12 磅/小时/英寸
 模具直径:8 英寸
 放大比:2.5 比 1
 螺杆速度:39 rpm
 冷冻线高度:57 英寸

NOTE

1.
- Method B

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