

DOW™ LLDPE DFDC-7080 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Dow Linear Low Density Polyethylene DFDC-7080 NT 7 is a Linear Low Density Polyethylene Resin material. This product is available in North America and is processed by blowing film.

The main characteristics of Dow linear low density polyethylene DFDC-7080 NT 7 are:

- Antiblock software
- slide
- processing aids

General Information			
Additive	Anti-caking agent (5000 ppm)		
	Sliding agent (800 ppm)		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	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	1.58	J	
Film Puncture Force	31.1	N	
Film Puncture Resistance	7.78	J/cm ³	
Film strength			ASTM D882
MD	99.3	J/cm ³	ASTM D882
TD	105	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	223	MPa	ASTM D882
2% secant, MD	185	MPa	ASTM D882
1% secant, TD	216	MPa	ASTM D882
2% secant, TD	177	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.4	MPa	ASTM D882
TD: Yield	11.4	MPa	ASTM D882
MD: Fracture	29.0	MPa	ASTM D882
TD: Fracture	29.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	650	%	ASTM D882
TD: Fracture	660	%	ASTM D882

Dart Drop Impact	90	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD	190	g	ASTM D1922
TD	370	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ISO 306
Melting Temperature (DSC)	122	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	19		ASTM D2457
Haze	37	%	ASTM D1003
Extrusion instructions			

Fabrication Conditions For Blown Film:
 Screw Size: 3.5in.; 30:1ratio L/D
 Screw Type: DSB II
 Die Gap: 70 mil (1.8 mm)
 Melt Temperature: 415°F
 Output: 12 lb/hr/in. of die circumference
 Die Diameter: 8 in.
 Blow-Up Ratio: 2.5 to 1
 Screw Speed: 39 rpm
 Frost Line Height: 54 in.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

