

DOW™ LLDPE DFDA-7047 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

DOW™ DFDA-7047 NT7 linear low density polyethylene is an ethylene-butene copolymer designed for blown film applications.

Main Characteristics:

Butene linear low density polyethylene

Blown film extrusion

Pellet form

Complies with:

EU, No 10/2011

U.S. FDA, 21 CFR 177.1520(c)3.2a

Canadian HPFB No Objection (with Limitations)

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection		
	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)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	2.49	J	Internal method
Film Puncture Force	35.6	N	Internal method
Film Puncture Resistance	12.0	J/cm ³	Internal method
Film strength			ASTM D882
MD	96.8	J/cm ³	ASTM D882
TD	95.1	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	221	MPa	ASTM D882
2% secant, MD	189	MPa	ASTM D882
1% secant, TD	248	MPa	ASTM D882
2% secant, TD	210	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	10.7	MPa	ASTM D882
TD: Yield	11.0	MPa	ASTM D882
MD: Fracture	36.5	MPa	ASTM D882

TD: Fracture	26.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	580	%	ASTM D882
TD: Fracture	690	%	ASTM D882
Dart Drop Impact	90	g	ASTM D1709A
Elmendorf Tear Strength ¹			ASTM D1922
MD	170	g	ASTM D1922
TD	320	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ASTM D1525
Melting Temperature (DSC)	121	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	33		ASTM D2457
Haze	19	%	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: 420°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: 51 in.

NOTE

1. Method B

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