

DOW™ LLDPE DFDC-7087 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

Message:

Dow Linear Low Density Polyethylene DFDC-7087 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-7087 NT 7 are:

Antiblock software

slide

processing aids

The typical application field of Dow linear low density polyethylene DFDC-7087 NT 7 is: food contact application

General Information			
Additive	Anti-caking agent (6300 ppm)		
	Sliding agent (1500 ppm)		
Agency Ratings	HPFB (Canada) No Objection		
	Europe No 10/2011		
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	1.47	J	Internal method
Film Puncture Force	26.7	N	Internal method
Film Puncture Resistance	8.11	J/cm ³	Internal method
Film strength			ASTM D882
MD	109	J/cm ³	ASTM D882
TD	107	J/cm ³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	216	MPa	ASTM D882
2% secant, MD	190	MPa	ASTM D882
1% secant, TD	246	MPa	ASTM D882
2% secant, TD	206	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.7	MPa	ASTM D882
TD: Yield	11.6	MPa	ASTM D882
MD: Fracture	40.5	MPa	ASTM D882

TD: Fracture	29.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	580	%	ASTM D882
TD: Fracture	680	%	ASTM D882
Dart Drop Impact	95	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	160	g	ASTM D1922
TD	400	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ASTM D1525
Melting Temperature (DSC)	122	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	17		ASTM D2457
Haze	38	%	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: 417°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: 52 in

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