

# DOW™ LLDPE DFDA-7059 NT 7

Linear Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

DOW DFDA-7059 NT 7 linear low density polyethylene resin is an ethylene-butene copolymer supplied in pellet form. Generally speaking, the resin is suitable for film processing with thin casting thickness, and these applications require transparency and toughness. The resin has excellent performance in the processing of co-extrusion cast stretch film. The resin is also suitable for the processing of drip irrigation equipment, hoses and pipe fittings.

Main features:

High transparency

High tensile strength

high elongation

good puncture strength

Complies with:

Comply with the requirements of U.S. Food and Drug Administration Regulation 21 CFR 177.1520(c) 3.2a.

EU, No 10/2011

Candaian HPFB No Objection

please check 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		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield	9.51	MPa	ASTM D638
Fracture	10.3	MPa	ASTM D638
Tensile Elongation <sup>2</sup>			ASTM D638
Yield	11	%	ASTM D638
Fracture	570	%	ASTM D638
Flexural Modulus - 2% Secant <sup>3</sup>	221	MPa	ASTM D790B
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882
MD: Broken, 25 µm, extruded film	34.5	MPa	ASTM D882
TD: Broken, 25 µm, extruded film	24.8	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Broken, 25 µm, extruded film	450	%	ASTM D882
TD: Broken, 25 µm, extruded film	850	%	ASTM D882
Dart Drop Impact (25 µm, Cast Film)	70	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 25 µm, cast film	50	g	ASTM D1922
TD: 25 µm, cast film	400	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	125	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45, 25.4 µm, cast film)	92		ASTM D2457
Haze (25.4 µm, Cast Film)	2.5	%	ASTM D1003
Additional Information			
在 520°F (270°C) 下挤出的槽型铸造薄膜具有典型的薄膜属性.			
Extrusion	Nominal Value	Unit	
Melt Temperature	271	°C	
Extrusion instructions			
铸造薄膜的制造条件: 可采用传统的槽型铸造薄膜挤出设备进行挤压,只需进行微小的机器改造以获得最佳使用效果. 熔体温度:520°F (270°C)			
NOTE			

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|----|---|
| 1. | Plaque molded and tested in accordance with ASTM D4976. |
| 2. | Plaque molded and tested in accordance with ASTM D4976. |
| 3. | Plaque molded and tested in accordance with ASTM D4976. |

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