

# DOW™ LLDPE DFDC-7080 NT 7

# The Dow Chemical Company - Linear Low Density Polyethylene Resin

Tuesday, November 5, 2019

• Slip: 800 ppm

### **General Information**

#### **Product Description**

- CANADIAN HPFB NO OBJECTION (WITH LIMITATIONS)
- U.S. FDA 21 CFR 177.1520(c)3.2a (with Restrictions)

#### General

Material Status	Commercial: Active		
Availability	North America		

Additive • Antiblock: 5000 ppm • Processing Aid: No

Agency Ratings • FDA 21 CFR 177.1520(c) 3.2a • HPFB (Canada) No Objection

Forms • Pellets

Processing Method • Blown Film

ASTM	&	ISO	Properties 1

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.924		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	Internal Method
Film Puncture Energy	14.0	in·lb	
Film Puncture Force	7.00	lbf	
Film Puncture Resistance	94.0	ft·lb/in³	
Film Toughness - MD	1200	ft·lb/in³	ASTM D882
Film Toughness - TD	1270	ft·lb/in³	ASTM D882
Secant Modulus			ASTM D882
1% Secant, MD	32400	psi	
2% Secant, MD	26800	psi	
Secant Modulus			ASTM D882
1% Secant, TD	31300	psi	
2% Secant, TD	25600	psi	
Tensile Strength - MD (Yield)	1650	psi	ASTM D882
Tensile Strength - TD (Yield)	1650	psi	ASTM D882
Tensile Strength - MD (Break)	4200	psi	ASTM D882
Tensile Strength - TD (Break)	4300	psi	ASTM D882
Tensile Elongation - MD (Break)	650	%	ASTM D882
Tensile Elongation - TD (Break)	660	%	ASTM D882
Dart Drop Impact	90	g	ASTM D1709
Elmendorf Tear Strength - MD	190	g	ASTM D1922
Elmendorf Tear Strength - TD	370	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	216	°F	ISO 306
Melting Temperature (DSC)	252	°F	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	19		ASTM D2457
Haze	37.0	%	ASTM D1003



## DOW™ LLDPE DFDC-7080 NT 7

# The Dow Chemical Company - Linear Low Density Polyethylene Resin

### **Processing Information**

#### **Extrusion Notes**

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.

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

