

DOW™ HDPE DGDC-2100 NT 7

High Density Polyethylene Resin

The Dow Chemical Company

Message:

High Density Polyethylene (HDPE)

Complies with:

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

Canadian HPFB No Objection

EU, No 10/2011

Consult the regulations for complete details.

DOW DGDC-2100 NT 7 High Density Polyethylene Resin is a high-molecular weight, high-density film grade resin. This product was specifically designed to offer an optimal balance of physical properties and processability. DGDC-2100 NT7 HDPE resin is ideally suited for use in making grocery sacks, consumer and institutional liners, and merchandise bags.

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		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.948	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.070	g/10 min	ASTM D1238
190°C/21.6 kg	9.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	13	µm	
Film Puncture Energy (13 µm)	0.893	J	Internal method
Film Puncture Force (13 µm)	29.8	N	Internal method
Film Puncture Resistance (13 µm)	10.6	J/cm ³	Internal method
secant modulus			ASTM D882
2% secant, MD: 13 µm	966	MPa	ASTM D882
2% secant, TD: 13 µm	1100	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 13 µm	42.4	MPa	ASTM D882
TD: Yield, 13 µm	31.8	MPa	ASTM D882
MD: Broken, 13 µm	93.4	MPa	ASTM D882
TD: Broken, 13 µm	68.8	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Broken, 13 μm	330	%	ASTM D882
TD: Broken, 13 μm	410	%	ASTM D882
Dart Drop Impact (13 μm)	350	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 13 μm	11	g	ASTM D1922
TD : 13 μm	73	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	128	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 12.7 μm)	9		ASTM D2457
Haze (12.7 μm)	69	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:1.97 英寸 (50mm);24:1 L/D

熔体温度:410 °F (210 °C)

输出:模具周长的 8 磅/小时/英寸

模具直径:3.94 英寸 (100mm)

放大比:4:1

内缩高度:32 英寸 (813 mm)

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