

DOWLEX™ 2035

Polyethylene Resin

The Dow Chemical Company

Message:

Linear Low Density Polyethylene

Outstanding tear strength, impact strength and toughness

For high performance cast film applications

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

Complies with Canadian HPFB No Objection (With Limitations)

Complies with U.S. FDA-DMF

Complies with U.S. FDA-U.S. USP

Complies with EU, No 10/2011

Complies with Japan Hygienic Olefin and Styrene Plastics Association

Consult the regulations for complete details.

General Information			
Agency Ratings	DMF not rated		
	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
	JHOSPA not rated		
	USP Not Rated		
	Europe No 10/2011		
Forms	Particle		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.919	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Resistance	10.7	J/cm ³	Internal method
Film strength			ASTM D882
MD : 25 µm	131	J/cm ³	ASTM D882
TD : 25 µm	132	J/cm ³	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	11.1	MPa	ASTM D882
TD: Yield, 25 µm	10.4	MPa	ASTM D882
MD: Break, 25 µm	51.1	MPa	ASTM D882
TD: Break, 25 µm	36.3	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Break, 25 µm	610	%	ASTM D882
TD: Break, 25 µm	770	%	ASTM D882
Dart Drop Impact (25 µm)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	270	g	ASTM D1922
TD : 25 µm	610	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.8	°C	ASTM D1525
Melting Temperature (DSC)	124	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm)	96		ASTM D2457
Haze (25.4 µm)	0.80	%	ASTM D1003
Extrusion instructions			

铸造薄膜的制造条件:

螺杆尺寸:3.5 英寸 (89 mm);32:1 L/D

螺杆类型:Sterlex

熔体温度:510°F (266°C)

螺杆尺寸:2.5 英寸 (63.5 mm);24:1 L/D

螺杆类型:带 Maddock Mixer 的单跨型

熔体温度:517°F (269°C)

螺杆尺寸:2.0 英寸 (51 mm);32:1 L/D

螺杆类型:DS 带单跨

熔体温度:508°F (264°C)

冷却辊温度:70°F (21°C)

生产线速度:500 fpm (152 米/分)

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