

DOWLEX™ 2740G (Blown Film)

Polyethylene Resin

The Dow Chemical Company

Message:

DOWLEX™ 2740G Polyethylene Resin is suitable for the production of high modulus blown films. The resin offers excellent optical properties and good tear and impact strength and can be used to enable the reduction in gauge of various film structures.

Applications:

Various industrial, consumer and specialty films.

Complies with:

EU, No 10/2011

U.S. FDA 21 CFR 177.1520

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity ¹	0.940	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) ² (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	
Film Puncture Energy ³ (50 µm)	2.00	J	ASTM D5748
Film Puncture Force ⁴ (50 µm)	46.0	N	ASTM D5748
Film Puncture Resistance ⁵ (50 µm)	4.00	J/cm ³	ASTM D5748
Tensile Modulus ⁶			ISO 527-3
2% secant, MD: 50 µm	370	MPa	ISO 527-3
2% secant, TD: 50 µm	420	MPa	ISO 527-3
Tensile Stress ⁷			ISO 527-3
MD: Yield, 50 µm	26.0	MPa	ISO 527-3
TD: Yield, 50 µm	25.0	MPa	ISO 527-3
MD: Break, 50 µm	44.0	MPa	ISO 527-3
TD: Break, 50 µm	43.0	MPa	ISO 527-3
Tensile Elongation ⁸			ISO 527-3
MD: Break, 50 µm	690	%	ISO 527-3
TD: Break, 50 µm	740	%	ISO 527-3
Dart Drop Impact ⁹ (50 µm)	120	g	ISO 7765-1/A
Elmendorf Tear Strength ¹⁰			ASTM D1922
MD : 50 µm	130	g	ASTM D1922
TD : 50 µm	240	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature ¹¹	125	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	190 - 240	°C	
Extrusion instructions			
吹塑薄膜树脂的制造条件: 模具间隙 1.6 至 2.5 mm 熔体温度:190 至 240°C 放大比:1.5 比 3.5 建议的厚度范围:10 至 150 μm			
NOTE			
1.	Compression molding		
2.	Compression molding		
3.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
4.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
5.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
6.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
7.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
8.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
9.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
10.	Blow molded film extruded at 235°C, 50 microns, 2.5 BUR, 1.5mm die gap.		
11.	Compression molding		

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