

DOWLEX™ 2256G

Linear Low Density Polyethylene

The Dow Chemical Company

Message:

Linear Low Density Polyethylene

For heavy duty blown film applications

Improved thermal stability

Complies with:

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

EU, 10/2011

Canadian HPFB No Objection

Consult the regulations for complete details.

General Information			
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1520(c) 3.2a		
	HPFB (Canada) No Objection 2		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Puncture Resistance			
20 µm	17.5	J/cm³	ASTM D882
51 µm	9.27	J/cm³	
Film Toughness			
MD : 20 µm	137	J/cm³	ASTM D882
MD : 51 µm	127	J/cm³	
TD : 20 µm	126	J/cm³	
TD : 51 µm	145	J/cm³	
Secant Modulus			
2% Secant, MD : 20 µm	216	MPa	ASTM D882
2% Secant, MD : 51 µm	208	MPa	
2% Secant, TD : 20 µm	276	MPa	
2% Secant, TD : 51 µm	259	MPa	
Tensile Strength			
MD : Yield,20 µm	11.1	MPa	ASTM D882
MD : Yield,51 µm	10.9	MPa	
TD : Yield,20 µm	7.86	MPa	

TD : Yield,51 μm	11.5	MPa	
MD : Break, 20 μm	53.6	MPa	
MD : Break, 51 μm	41.4	MPa	
TD : Break, 20 μm	41.7	MPa	
TD : Break, 51 μm	47.5	MPa	
Tensile Elongation			ASTM D882
MD : Break, 20 μm	670	%	
MD : Break, 51 μm	670	%	
TD : Break, 20 μm	730	%	
TD : Break, 51 μm	820	%	
Dart Drop Impact			ASTM D1709A
20 μm	200	g	
51 μm	330	g	
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm	480	g	
MD : 51 μm	980	g	
TD : 20 μm	620	g	
TD : 51 μm	1200	g	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	106	°C	ASTM D1525
Melting Temperature	121	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 20.3 μm	75		
45°, 50.8 μm	72		
Haze			ASTM D1003
20.3 μm	6.3	%	
50.8 μm	9.7	%	

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