

ATTANE™ NG 4701G

Ultra Low Density Polyethylene Resin

The Dow Chemical Company

Message:

ATTANE™ NG 4701G Polyethylene Resin is a great abuse resistance copolymer offering extremely high impact strength, combined with good tear and exceptional optics. It has the added benefit of being easy to process (low melt temperature, low extruder amps and low screen pack backpressure) which translates into quality film rolls due to its bubble stability.

Main Characteristics:

Ultra low density ethylene/octene copolymer

High performance film applications

Complies with:

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

Canadian HPFB No Objection

Consult the regulations for complete details.

General Information			
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a HPFB (Canada) No Objection		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.912	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy	6.21	J	Internal method
Film Puncture Force	71.2	N	Internal method
Film Puncture Resistance	33.1	J/cm³	Internal method
Film strength			ASTM D882
MD	72.8	J/cm³	ASTM D882
TD	70.3	J/cm³	ASTM D882
secant modulus			ASTM D882
1% secant, MD	141	MPa	ASTM D882
2% secant, MD	124	MPa	ASTM D882
1% secant, TD	148	MPa	ASTM D882
2% secant, TD	131	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	8.96	MPa	ASTM D882
TD: Yield	8.62	MPa	ASTM D882
MD: Fracture	41.4	MPa	ASTM D882
TD: Fracture	37.2	MPa	ASTM D882
Tensile Elongation			ASTM D882

MD: Fracture	400	%	ASTM D882
TD: Fracture	450	%	ASTM D882
Dart Drop Impact	380	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD	250	g	ASTM D1922
TD	600	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ASTM D1525
Melting Temperature (DSC)	101	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	49		ASTM D2457
Haze	11	%	ASTM D1003
Extrusion instructions			

吹塑薄膜的制造条件:

螺杆尺寸:3.5 in.

螺杆类型:DSBII

模具间隙:70 密尔 (1.8 mm)

输出:模具周长的 12 磅/小时/英寸

模具直径:8 英寸

放大比:2.5:1

冷冻线高度:39 英寸.

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