İstoç Ticaret Merkezi Aktem Plaza

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Overview

DOWLEX™ NG 5056G Polyethylene Resin is a next generation linear low density polyethylene resin designed for high quality blown film applications requiring a combination of excellent optical properties, tear strength and sealability, and a very good toughness/stiffness balance. DOWLEX NG 5056G Polyethylene Resin is also designed to offer a very low gel level making it ideal for use in lamination films and other specialty packaging.

Note: DOWLEX NG 5056G Polyethylene Resin should comply with FDA regulation 1<mark>77.1520 and with most European</mark> food contact regulations when used unmodified and processed according to good man<mark>ufacturing practices for food</mark> contact applications. Please, contact your nearest Dow office regarding food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

- · High clarity tissue overwrap
- · Produce bags
- · Food packaging films
- Lamination film

Physical	N. Contraction	Nominal Value	(English)	Nomina <mark>l Value</mark>	(SI)	Test Method
Density		0.919	g/cm³	0.919	g/cm³	ASTM D792 1
Melt Mass-Flow Rate (MFR)	(190°C/2.16 kg)	1.1	g/10 min	1.1	g/10 min	ISO 1133 ¹
Films		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Film Thickness - Tested		2.0	mil	50	μm	
Film Puncture Energy (2.0 m	il (50 μm))	31.0	in·lb	3.50	J	ASTM D5748 ²
Film Puncture Force (2.0 mil	(50 µm))	12.1	lbf	54.0	N	ASTM D5748 ²
Tensile Modulus		ч				ISO 527-3 ²
2% Secant, MD: 2.0 mil (5	0 μm)	28700	psi	198	MPa	
2% Secant, TD: 2.0 mil (50) μm)	34500	psi	238	MPa	
Tensile Stress						ISO 527-3 ²
MD: Yield, 2.0 mil (50 μm)		1090	psi	7.50	MPa	
TD: Yield, 2.0 mil (50 µm)		1160	psi	8.00	MPa	
MD: Break, 2.0 mil (50 μm)	5510	psi	38.0	MPa 🦯	
TD: Break, 2.0 mil (50 µm)		5370	psi	37.0	MPa	
Tensile Elongation					4	ISO 527-3 ²
MD: Break, 2.0 mil (50 μm)	810	%	810	%	
TD: Break, 2.0 mil (50 µm)		920	%	920	%	
Dart Drop Impact (2.0 mil (50) µm))	450	g	450	g	ISO 7765-1/A ²
Elmendorf Tear Strength						ASTM D1922 ²
MD: 2.0 mil (50 μm)		890	g	890	g	
TD: 2.0 mil (50 µm)		1100	g	1100	g	
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Vicat Softening Temperature		219	°F	104	°C	ASTM D1525 ¹
Optical		Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gloss (45°, 1.97 mil (50.0 μn	1))	61		61		ASTM D2457 ²
Haze (1.97 mil (50.0 μm))		8.9	%	8.9	%	ISO 14782 ²
Extrusion		Nominal Value	(English)	Nominal Value	(SI)	
Melt Temperature		374 to 464	°F	190 to 240	°C	
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Extrusion Notes

Fabrication Conditions For Tubular Film Extrusion:

- Melt Temperature: 190 to 240°C. • Blow-Up Ratio Range: 1.5 to 3:1.
- Recommended Gauge Range: 10 to 150 μm.

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Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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¹ Compression Molded

² Blown film extruded at 235°C, 50 microns, 2.5 BUR, 1.55mm die gap.

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- use as a critical component in medical devices that support or sustain human life; or
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