





20212 659 26 03

☑ Info@pakrokimya.com.tr

ELITE™ AT 6101 Enhanced Polyethylene Resin

Overview

ELITE™ AT 6101 Enhanced Polyethylene Resin is a copolymer produced via INSITE™ technology from Dow. It is designed for stretch hooder application and offers a unique combination of holding force, elastic recovery, optics and toughness.

Main Characteristics:

- · Excellent elastic recovery and holding force
- · Very high impact resistance and tear properties
- Ease of processing

Complies with:

- U.S. FDA 21 CFR 175.105(c)(5)
- EU, 10/2011

Consult the regulations for complete details.

Additive

· Antiblock: No

· Slip: No

· Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.905	g/cm³	0.905	g/cm³	ASTM D792
Base Density 1	0.905	g/cm³	0.905	g/cm³	Dow Method
Melt Index (190°C/2.16 kg)	0.80	g/10 min	0.80	g/10 min	ASTM D1238
Films	Nominal Value		Nominal Value	(SI)	Test Method
Film Thickness - Tested	1.0	mil	25	μm	
Film Puncture Energy	50.0	in·lb	5.65	J	Dow Method
Film Puncture Force	13.0	lbf	57.8	N	Dow Method
Film Puncture Resistance	350	ft·lb/in³	29.0	J/cm³	Dow Method
Film Toughness					ASTM D882
MD	800	ft·lb/in³	66.2	J/cm³	
TD	850	ft·lb/in³	70.3	J/cm³	
Secant Modulus					ASTM D882
1% Secant, MD	12800	psi	88.3	MPa	
2% Secant, MD	12000	psi	82.7	MPa	
1% Secant, TD	13000	psi	89.6	MPa	
2% Secant, TD	12000	psi	82.7	MPa	
Tensile Strength					ASTM D882
MD : Yield	850	psi	5.86	MPa	
TD : Yield	800	psi	5.52	MPa	
MD : Break	6500	psi	44.8	MPa	
TD : Break	5500	psi	37.9	MPa	
Tensile Elongation					ASTM D882
MD : Break	390	%	390	%	
TD : Break	500	%	500	%	
Dart Drop Impact	800	g	800	g	ASTM D1709B
Elmendorf Tear Strength ²					ASTM D1922
MD	200	g	200	g	
TD	360	g	360	g	
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Vicat Softening Temperature	203	°F	95.0	°C	ASTM D1525
Melting Temperature (DSC)	214	°F	101	°C	Dow Method
Optical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Gloss (45°)	75		75		ASTM D2457

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Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Haze	4.0 %	4.0 %	ASTM D1003

Extrusion Notes

Fabrication Conditions For Blown Film

Screw Size: 3.5 in.Screw Type: DSBIIDie Gap: 70 mil

Melt Temperature: 421°F

• Output: 12 lb/hr/in. of die circumference

Die Diameter: 8 in.
Blow-Up Ratio: 2.5 to 1
Screw Speed: 38 rpm
Frost Line Height: 58 in.

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 Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

² Method B

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Additional Information

North America U.S. & Canada:	Europe/Middle 1-800-441-4369 1-989-832-1426 Italy:	+800-3694-6367 +31-11567-2626 +800-783-825
Mexico:	+1-800-441-4369	333.333.323
Latin America Argentina: +	South Africa 54-11-4319-0100	+800-99-5078
3	55-11-5188-9000	
Colombia:	+57-1-219-6000 Asia Pacific	+800-7776-7776
Mexico: +	52-55-5201-4700	+603-7965-5392

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