



Technical Data Sheet

ELITE™ AT 6507 Enhanced Polyethylene Resin

Overview

ELITE™ AT 6507 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.

Sustainability Attribute:



Main Characteristics:

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

Complies with:

- U.S. FDA FCN 424
- EU, 10/2011

Consult the regulations for complete details.

Physical Properties

Physical	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method ¹
Density	0.902	g/cm ³	0.902	g/cm ³	ASTM D792
Melt Index (190°C/2.16 kg)	0.85	g/10 min	0.85	g/10 min	ASTM D1238
Films					
Film Thickness — Tested	2	mil	50	µm	
Film Puncture Energy	30.1	in·lb	3.40	J	Dow Method
Film Puncture Force	10.1	lbf	45.0	N	Dow Method
Film Puncture Resistance	99.1	ft·lb/in ³	8.20	J/cm ³	Dow Method
Film Toughness					ASTM D882
MD	581	ft·lb/in ³	48.1	J/cm ³	
TD	483	ft·lb/in ³	40.0	J/cm ³	

1. ASTM: American Society for Testing and Materials

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

Physical Properties (Cont.)

Films	Nominal Value	Unit (English)	Nominal Value	Unit (SI)	Test Method
Tensile Strength					ASTM D882
MD: Yield	508	psi	3.50	MPa	
TD: Yield	696	psi	4.80	MPa	
MD: Break	3350	psi	23.1	MPa	
TD: Break	2710	psi	18.7	MPa	
Tensile Elongation					ASTM D882
MD: Break	480	%	480	%	
TD: Break	530	%	530	%	
Dart Drop Impact	1800	g	1800	g	ASTM D1709B
Elmendorf Tear Strength ²					ASTM D1922
MD	640	g	640	g	
TD	320	g	320	g	
Optical					
Gloss (45°)	79		79		ASTM D2457
Haze	3.00	%	3.00	%	ASTM D1003
Extrusion Notes					
Fabrication Conditions for Blown Film:					
<ul style="list-style-type: none"> Screw Size: 45 mm Die Gap: 1.5 mm Melt Temperature: 244°C Output: 6.6 kg/hr/mm of die circumference Die Diameter: 150 mm Blow-Up Ratio: 2.5 to 1 Screw Speed: 59 rpm 					

2. Method B

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