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ELITE[™] AT 6401 Enhanced Polyethylene Resin

Overview

ELITE™ AT 6401 Enhanced Polyethylene Resin is an ethylene/octene-1 copolymer suitable for the production of blown film requiring good sealing and toughness with good stiffness and temperature resistance.

Main Characteristics

- High Hot Tack and Seal Strength
- Broad Hot Tack and FFS Packaging Window
- Excellent Stiffness and Toughness Properties
- High Throughput Resin with Excellent Bubble Stability

Complies with:

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- U.S. FDA FCN 424
- EU, No 10/2011
- Canadian HPFB No Objection

Consult the regulations for complete details.

Additive • Antiblock:	No	• Slip: No		• Pr	Processing Aid: No		
Physical		Nominal Value	(English)	Nominal Value	(SI)	Test Method	
Density		0.912	g/cm³	0.912	g/cm³	ASTM D792	
Melt Index (190°C/2.16 kg)		0.85	g/10 min	0.85	g/10 min	ASTM D1238	
Films		Nominal Value	(English)	Nominal Value	(SI)	Test Method	
Film Thickness - Tested		1.0	mil	25	μm		
Film Puncture Energy (1.0 mil (25 µm))	56 <mark>.4</mark>	in·lb	6.37	J	Dow Method	
Film Puncture Force (1.0 mil (2	5 μm))	15.1	lbf	67.2	N	Dow Method	
Film Puncture Resistance (1.0	mil (25 μm))	402	ft·lb/in³	33.3	J/cm ³	Dow Method	
Secant Modulus - 2% Secant, I (1.0 mil (25 µm))	MD	17600	psi	121	MPa	ASTM D882	
Dart Drop Impact (1.0 mil (25 µm))		900	g	900	g	ASTM D1709	
Elmendorf Tear Strength - MD (1.0 mil (25 µm))		210	g	210	g	ASTM D1922 ¹	
Thermal		Nominal Value	(English)	Nominal Value	(SI)	Test Method	
Melting Temperature (DSC)		224	°F	107	°C	Dow Method	
Optical		Nominal Value	(English)	Nominal Value	(SI)	Test Method	
Haze (1.00 mil (25.4 µm))		7.4	%	7.4	%	ASTM D1003	

Extrusion Notes

- Fabrication Conditions For Blown Film:
 - Monolayer Film (1mil)
 - Screw Size: 2in ; 30:1ratio L/D
 - Die Gap: 78mil (2 mm)
 - Output: 11.3 lb/hr/in. of die circumference
 - Die Diameter: 9.86 in.
 - Blow-Up Ratio: 2.5 to 1
 - Frost Line Height: 36 in.

Notes

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

¹ Method B

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