



ELITE™ AT 6401

The Dow Chemical Company - Enhanced Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

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:

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

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Antiblock: No	• Processing Aid: No	• Slip: No
Agency Ratings	• EU No 10/2011	• FDA FCN 424	• HPFB (Canada) No Objection
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.914		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Film Puncture Energy (1.0 mil)	56.4	in-lb	Internal Method
Film Puncture Force (1.0 mil)	15.1	lbf	Internal Method
Film Puncture Resistance (1.0 mil)	402	ft-lb/in ³	Internal Method
Secant Modulus - 2% Secant, MD (1.0 mil)	17600	psi	ASTM D882
Dart Drop Impact (1.0 mil)	900	g	ASTM D1709
Elmendorf Tear Strength - MD ² (1.0 mil)	210	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	224	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Haze (1.00 mil)	7.40	%	ASTM D1003

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Processing Information

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

¹ Typical properties: these are not to be construed as specifications.

² Method B