

ELITE™ AT 6401

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

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 Information			
Agency Ratings	FDA FCN 424		
	HPFB (Canada) No Objection		
	Europe No 10/2011		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.912	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Film Puncture Energy (25 µm)	6.37	J	Internal method
Film Puncture Force (25 µm)	67.2	N	Internal method
Film Puncture Resistance (25 µm)	33.3	J/cm ³	Internal method
Secant Modulus - 2% Secant, MD (25 µm)	121	MPa	ASTM D882
Dart Drop Impact (25 µm)	900	g	ASTM D1709
Elmendorf Tear Strength - MD ¹ (25 µm)	210	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	107	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (25.4 µm)	7.4	%	ASTM D1003
Extrusion instructions			

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.

NOTE

1. Method B

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