Technical Information

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

Consult the regulations for complete details.

Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	0.912	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))	56.4	in·lb	6.37	J	Dow Method
Film Puncture Force (1.0 mil (25 µm))	15.1	lbf	67.2	N	Dow Method
Film Puncture Resistance (1.0 mil (25 µm))	402	ft·lb/in³	33.3	J/cm³	Dow Method
Secant Modulus - 2% Secant, MD (1.0 mil (25 µm))	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] (1.0 mil (25 µm))	210	g	210	g	ASTM D1922
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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