



ELITE™ AT 6202

The Dow Chemical Company - Enhanced Polyethylene Resin

Tuesday, November 5, 2019

General Information

Product Description

ELITE™ AT 6202 Enhanced Polyethylene Resin is an enhanced LLDPE ethylene-octene copolymer from Dow. This grade is a fully formulated sealant resin designed for demanding applications where hot tack strength is a key requirement.

Main Characteristics

- High Hot Tack Strength
- Broad Hot Tack Window
- Low Heat Seal Initiation Temperature
- High Throughput Resin with excellent bubble stability

Complies with:

- U.S. FDA FCN 424
- Canadian HPFB No Objection
- EU, No 20/2011

Consult the regulations for complete details.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific • Europe	• Latin America • North America	
Additive	• Antiblock: 1875 ppm	• Processing Aid: Yes	• Slip: 750 ppm
Agency Ratings	• EU 10/2011	• FDA FCN 424	• HPFB (Canada) No Objection
Forms	• Pellets		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.910		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)	38.0	in-lb	Internal Method
Film Puncture Force (1.0 mil)	12.2	lbf	Internal Method
Film Puncture Resistance (1.0 mil)	253	ft-lb/in ³	Internal Method
Secant Modulus - 2% Secant, MD (1.0 mil)	10000	psi	ASTM D882
Secant Modulus - 2% Secant, TD (1.0 mil)	11200	psi	ASTM D882
Tensile Strength - MD (Yield, 1.0 mil)	1150	psi	ASTM D882
Tensile Strength - TD (Yield, 1.0 mil)	1130	psi	ASTM D882
Tensile Strength - MD (Break, 1.0 mil)	7100	psi	ASTM D882
Tensile Strength - TD (Break, 1.0 mil)	5800	psi	ASTM D882
Tensile Elongation - MD (Break, 1.0 mil)	450	%	ASTM D882
Tensile Elongation - TD (Break, 1.0 mil)	600	%	ASTM D882
Dart Drop Impact (1.0 mil)	1000	g	ASTM D1709B
Elmendorf Tear Strength - MD ² (1.0 mil)	210	g	ASTM D1922
Elmendorf Tear Strength - TD ² (1.0 mil)	430	g	ASTM D1922

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Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	223	°F	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 1.00 mil)	63		ASTM D2457
Haze (1.00 mil)	7.90	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
VFFS Hot Tack Window ³	45°F (205-250) or 25°C (96-121)		Internal Method

Processing Information

Extrusion Notes

Fabrication Conditions For Blown Film:

- Screw Size: 3.5in. (88.9 mm); 30:1ratio L/D
- Screw Type: DSBII
- Die Gap: 70mil (1.8 mm)
- Melt Temperature: 433°F (223°C)
- Output: 11.9 lb/hr/in. of die circumference
- Die Diameter: 8 in.
- Blow-Up Ratio: 2.5 to 1
- Frost Line Height: 52 in. (1321 mm)

Notes

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

² Method B

³ 2 mil coex film, 20/60/20 with MDPE core, sealant layer formulated with 10% LDPE and slip and AB. Tested on VFFS machine with 4 lbs fill weight, 0.25 second dwell time.