ELITE™ AT 6202

Enhanced Polyethylene Resin

The Dow Chemical Company

Message:

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 Information			
Additive	Processing aid Anti-caking agent (1875 ppm) Sliding agent (750 ppm)		
Agency Ratings	FDA FCN 424 HPFB (Canada) No Objection Europe 10/1/2011 12:00:00 AM		
Forms	Particle		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.908	g/cm³	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)	4.29	J	Internal method
Film Puncture Force (25 µm)	54.3	N	Internal method
Film Puncture Resistance (25 µm)	20.9	J/cm³	Internal method
secant modulus			ASTM D882
2% secant, MD: 25 µm	68.9	MPa	ASTM D882
2% secant, TD: 25 µm	77.2	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	7.93	MPa	ASTM D882
TD: Yield, 25 µm	7.79	MPa	ASTM D882
MD: Break, 25 µm	49.0	MPa	ASTM D882
TD: Break, 25 µm	40.0	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Break, 25 µm	450	%	ASTM D882
TD: Break, 25 µm	600	%	ASTM D882
Dart Drop Impact (25 µm)	1000	g	ASTM D1709B
Elmendorf Tear Strength [1]			ASTM D1922
MD : 25 µm	210	g	ASTM D1922
TD : 25 µm	430	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	106	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm)	63		ASTM D2457
Haze (25.4 µm)	7.9	%	ASTM D1003
Additional Information	Nominal Value		Test Method
VFFS Hot Tack Window [2]	45°F (205-250) or 25°C (96-121)		Internal method
Extrusion instructions			
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)			
NOTE			
1.	Method B		
2.	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.		

Recommended distributors for this material

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WECHAT