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ATTANE SL 4102G

Ultra Low Density Polyethylene Resin For Blown Films

ATTANE™ SL 4102G Ultra Low-Density Linear Polyethylene Copolymer is an ethylene-octene copolymer. It is specifically designed for the production of blown film requiring a combination of good processability, outstanding sealing, hot tack and toughness, coupled with excellent optical properties.

Note: ATTANE SL 4102G Ultra Low-Density Linear Polyethylene Copolymer should comply with FDA regulation 177.1520 and with most European food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. Please, contact your nearest Dow office regarding food contact compliance statements. The purchaser remains responsible for determining whether the use complies with all relevant regulations.

Applications:

- Diapers, pads, wipes, garments
- Non-food and detergent pouches
- Frozen foods
- Fresh & processed foods
- Industrial liners
- Medical packaging
- Fresh-cut produce packaging
- Liquid foods
- Display packaging
- Misc. heavy duty films

Physical Properties[1]	Unit		Test Method	Values
Melt Index, 190 °C/2.16 kg	g/10 min		ISO 1133	1
Density[2]	g/cm^3		ASTM D-792	0.905
Melting Point	°C		DSC	122
Vicat Softening Point[2]	°C		ASTM D-1525	84
Crystallisation Point	ºC		DSC	99
Hardness[2], Shore D			DIN 53505	40
Film Properties, 40 µm[1]	**Unit**		**Test Method**	**Values**
Dart Impact, (Method B)	g		ISO 7765-1	>850
Elmendorf Tear	g	MD	ASTM D-1922	660
		CD		800
Tensile Yield	MPa	MD	ISO 527-3	5.7
		CD		5.4
Ultimate Tensile	MPa	MD	ISO 527-3	33
		CD		30
Ultimate Elongation	%	MD	ISO 527-3	670
		CD		790
Young´s Modulus	MPa	MD	ASTM D-882	90
		CD		95
Optical Properties[1]	**Unit**		**Test Method**	**Values**
Gloss 20	°		ASTM D-2457	78
Haze	%		ISO 14782	7

Fabrication Conditions For Blown Film Extrusion:

- Melt Temperature: 190 to 240 ºC (Ideal: 215-225 ºC)
- Blown-Up Ratio: 1.5:1 to 3.5:1
- Recommended Gauge Range: 10 to 80 µm.

(1) Typical values, not to be constructed as specification limits.
(2) Compression moulded samples.

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b. use in cardiac prosthetic devices regardless of the length of time involved; (Cardiac prosthetic devices include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices);
c. use as a critical component in medical devices that support or sustain human life; or
d. use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction.

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