SABIC® LLDPE 6118LE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6118LE is a hexene linear low density polyethylene resin. Films made from this resin exhibit good tensile strength, stiffness, dart drop impact strength, tear strength and hottack properties. This resin contains anti block and slip Erucamide. The suffix E denotes European origin.
Application
Typical application for SABIC® LLDPE 6118LE are heavy duty bags, lamination films, agriculture films, stretch wrap films, frozen food packaging and other applications requiring high impact strength, high tear resistance and improved sealing properties.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Erucamide Lubricating Additive (1250 ppm) Anti-caking agent (1500 ppm) Antioxidation
Features	Low density Rigid, good High tensile strength smoothness hexene comonomer Anti-caking property Antioxidation Impact resistance, high Good tear strength
Uses	Blown Film Laminate Stretch winding Agricultural application Food packaging Heavy packing bag
Processing Method	Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133

Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Blown Film)	0.10		ISO 8295

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	

Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	190	MPa	ISO 527-3
TD: 50 µm, blown film	230	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	12.5	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	47.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	40.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	630	%	ISO 527-3
TD: Broken, 50 µm, blown film	800	%	ISO 527-3
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Strength - Blown Film (50.0 µm)	350	J/cm	ASTM D4272
Blocking - Blown Film (50.0 µm)	10	g	Internal method
Puncture Resistance - Blown Film (50.0 µm)	750	J/m	Internal method
Re-blocking - Blown Film (50.0 µm)		g	Internal method
Tear Strength [1]			ISO 6383-2
MD : 50.0 µm	100.0	kN/m	ISO 6383-2
TD : 50.0 µm	400.0	kN/m	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	106	°C	ISO 306/A
Melting Temperature (DSC)	124	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	57		ASTM D2457
Haze (50.0 µm, Blown Film)	13	%	ASTM D1003A
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Film of 50 µm and BUR = 2 has been produced on Kiefel IBC with 140 kg/h. Die size 200 mm, die gap 2.7 mm.			
NOTE			
1.	Blown Film		

Recommended distributors for this material

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