

SABIC® LLDPE 6118NE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6118NE is a hexene linear low density polyethylene resin. Films made from this resin exhibit an excellent tensile strength, stiffness, dart drop, impact strength, tear strength and seal/hottack properties. The suffix E denotes European origin. Typical application for SABIC® LLDPE 6118NE are heavy duty bags, lamination films, agriculture films, stretch wrap films, frozen food packaging and other applications requiring higher impact strength, high tear resistance and improved sealing properties. The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Antioxidation		
Features	Rigidity, high		
	High tensile strength		
	hexene comonomer		
	Antioxidation		
	Impact resistance, high		
	Good heat sealability		
	Good tear strength		
Uses	Films		
	Laminate		
	Stretch winding		
	Agricultural application		
	Food packaging		
	Heavy packing bag		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ISO 1133
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
Puncture Resistance - Blown Film (50.0 µm)	750	J/m	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

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