SABIC® LLDPE 118WJ

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 118WJ is a butene linear low density polyethylene resin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hottack properties. The resin contains anti block and slip erucamide. SABIC® LLDPE 118WJ is TNPP free.

Application

Typical applications for SABIC® LLDPE 118WJ are shipping sacks, ice bags, frozen food bags, liners, carrier bags, garbage bags, agriculture films, lamination and coextruded films, shrink film (for blending with LDPE), industrial consumer packaging and high clarity film if blended with (10-20%) LDPE. This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Erucamide Lubricating Additive (1500 ppm)
	Anti-caking agent (3500 ppm)
	Antioxidation
Features	Low density
	Butene comonomer
	High tensile strength
	smoothness
	Perforation resistance
	Anti-caking property
	Antioxidation
	Good toughness
	General
Uses	Blown Film
	Packaging
	Laminate
	Lining
	Bags
	Mixing
	Agricultural application
	Shrinkable film
	General
Processing Method	Lamination method
	Blow film
	Co-extrusion molding

Physical	Nominal Value	Unit	Test Method

Density	0.918	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction	0.10		ISO 8295
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	160	MPa	ISO 527-3
TD: 50 µm, blown film	180	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	11.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	37.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	30.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	600	%	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)	220	J/cm	ASTM D4272
Blocking	15	g	Internal method
Puncture Resistance - Blown Film (50.0 µm)	380	J/m	Internal method
Re-blocking	10	g	Internal method
Tear Strength [1]			ISO 6383-2
MD : 50.0 µm	40.0	kN/m	ISO 6383-2
TD : 50.0 µm	120.0	kN/m	ISO 6383-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	101	°C	ISO 306/A
Melting Temperature (DSC)	121	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	42		ASTM D2457
Haze (50.0 µm, Blown Film)	20	%	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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