SABIC® LLDPE 118NJ

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 118NJ 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. SABIC® LLDPE 118NJ is TNPP free.
Application
Typical applications for SABIC® LLDPE 118NJ 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	Antioxidation
Features	Low density Butene comonomer High tensile strength Perforation resistance 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
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
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	700	%	ISO 527-3
TD: Broken, 50 µm, blown film	850	%	ISO 527-3
Impact	**Nominal Value**	**Unit**	**Test Method**
Impact Strength - Blown Film (50.0 µm)	220	J/cm	ASTM D4272
Puncture Resistance - Blown Film (50.0 µm)	630	J/m	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	100	°C	ISO 306/A
Melting Temperature (DSC)	121	°C	Internal method
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Blown Film)	50		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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