

SABIC® SUPEER™ 8118

Metallocene Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® SUPEER™ 8118 is an ethylene-octene copolymer produced via Nexlene™ Technology. It performs well in a wide range of general purpose and high performance LLDPE blown film applications and has good processability.

Application

Typical applications for SABIC® SUPEER™ 8118 are lamination film, frozen bags, liquid pouches, heavy duty bags, industrial liner, agriculture film, stretch hood, surface protective film.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Low density		
	Copolymer		
	Workability, good		
	Octene comonomer		
Uses	Blown Film		
	Laminate		
	Lining		
	Bags		
	Industrial application		
	Stretch winding		
	Agricultural application		
	General		
	Heavy packing bag		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.1	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	50	µm	ASTM D882
secant modulus			
1% secant, MD: 50 µm, blown film	140	MPa	
1% secant, TD: 50 µm, blown film	156	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 50 µm, blown film	12.0	MPa	ASTM D882
TD: Yield, 50 µm, blown film	11.0	MPa	ASTM D882
MD: Broken, 50 µm, blown film	54.0	MPa	ASTM D882
TD: Broken, 50 µm, blown film	54.0	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Broken, 50 µm, blown film	630	%	ASTM D882
TD: Broken, 50 µm, blown film	730	%	ASTM D882
Dart Drop Impact ¹ (50 µm, Blown Film)	1000	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 50 µm, blown film	14	g	ASTM D1922
TD: 50 µm, blown film	22	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	115	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (50.0 µm, Blown Film)	10	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Blown Film Melt Temperature	180 - 200	°C	
Blow-up Ratio	2.00 - 3.00		
Properties have been measured on blown film of 50 µm and BUR = 2.5			
NOTE			
1.	F50		

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