

SABIC® SUPEER™ 8318

Metallocene Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® SUPEER™ 8318 is an ethylene-octene copolymer produced via Nexlene™ Technology. It performs well in a wide range of high performance LLDPE cast film applications and has good impact strength and transparency.

SABIC® SUPEER™ 8318 does not contain slip and anti-block agent.

Application

Typical applications for SABIC® SUPEER™ 8318 are stretch wrap film, silage film and breathable film.

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

General Information			
Features	Low density		
	Copolymer		
	Impact resistance, good		
	Octene comonomer		
Uses	Stretch winding		
	cast film		
	Agricultural application		
Appearance	Clear/transparent		
Processing Method	cast 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)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Tensile Strength			ASTM D882
MD: yield, 40 µm, extruded film	9.80	MPa	ASTM D882
TD: yield, 40 µm, extruded film	9.50	MPa	ASTM D882
MD: broken, 40 µm, extruded film	49.0	MPa	ASTM D882
TD: broken, 40 µm, extruded film	54.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: broken, 40 µm, extruded film	600	%	ASTM D882
TD: broken, 40 µm, extruded film	650	%	ASTM D882
Dart Drop Impact ¹ (40 µm, cast film)	400	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 40 µm, cast film	10	g	ASTM D1922
TD: 40 µm, cast film	23	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method

Melting Temperature	115	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Haze (40.0 μm, cast film)	2.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	
Cast Film Melt Temperature	250 - 300	°C	

Properties have been measured on cast film of 40μm

NOTE

1. F50

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