

SABIC® LLDPE 518N

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

Product Description

518N is fractional melt index Linear Low Density Polyethylene grade suitable for high strength packaging applications. Films produced using these resins gives outstanding toughness, excellent puncture resistance, good sealing characteristics and machinability on conversion lines.

Typical Applications

Heavy duty shipping sacks, Ice & frozen food bags, agricultural films etc.

General Information			
Features	High strength		
	Perforation resistance		
	Good toughness		
Uses	Packaging		
	Films		
	Bags		
	Agricultural application		
Processing Method	Film extrusion		
	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)	0.50	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
secant modulus			ASTM D882
1% sectioning, MD: 30 µm	250	MPa	ASTM D882
1% sectioning, TD: 30 µm	270	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 30 µm	11.0	MPa	ASTM D882
TD: Yield, 30 µm	10.0	MPa	ASTM D882
MD: Break, 30 µm	45.0	MPa	ASTM D882
TD: Break, 30 µm	38.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 30 µm	670	%	ASTM D882
TD: Break, 30 µm	850	%	ASTM D882
Dart Drop Impact (30 µm)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922

MD : 30 μm	180	g	ASTM D1922
TD : 30 μm	400	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 30.0 μm)	80		ASTM D2457
Haze (30.0 μm)	12	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Puncture Resistance (30.0 μm)	890	J/cm	Internal method
Extrusion	Nominal Value	Unit	
Melt Temperature	205 - 220	°C	

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