



# SABIC® LLDPE 518NT

LINEAR LOW DENSITY POLYETHYLENE  
REGION ASIA

## DESCRIPTION

SABIC® 518NT is an ethylene-butene copolymer designed for blown film application. It has excellent mechanical strength, puncture resistance, high tensile strength and sealing property. 518NT contains no slip and no antiblock. 518NT contains no slip and no antiblock.

## TYPICAL APPLICATIONS

Used for heavy duty film, general purpose package, agricultural film, textile package, thin coating layer, garbage bag, co-extrusion film stretch film and consumer package etc.

## TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190°C and 2.16 kg	0.5	g/10 min	ASTM D1238
<b>Density at 23°C</b>	918	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
<b>Tensile test</b>			
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	10	MPa	ASTM D882
stress at break, MD	55	MPa	ASTM D882
stress at break, TD	38	MPa	ASTM D882
elongation at break, MD	670	%	ASTM D882
elongation at break, TD	850	%	ASTM D882
<b>OPTICAL PROPERTIES</b>			
<b>Gloss</b>			
at 45° <sup>(1)</sup>	80	-	ASTM D2457
<b>Haze</b> <sup>(1)</sup>	12	%	ASTM D1003
<b>FILM PROPERTIES</b>			
<b>Dart Impact F50</b>	135	g	ASTM D1709
<b>Puncture resistance</b>	89	J/m	SABIC method

(1) Properties have been measured by producing 30 µ film with 2.5 BUR using 100% 518NT.

## PROCESSING CONDITIONS

Typical processing conditions for 518NT are:

Barrel temperature: 205 - 220°C

Blow up ratio: 2.0 - 3.0