

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

Revision 20201209

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	0.5	g/10 min	ASTM D1238
Density at 23°C	918	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
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
OPTICAL PROPERTIES			
Gloss			
at 45° ⁽¹⁾	80	-	ASTM D2457
Haze ⁽¹⁾	12	%	ASTM D1003
FILM PROPERTIES			
Dart Impact F50	135	g	ASTM D1709
Puncture resistance	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



STORAGE AND HANDLING

Polyethylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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