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# LLDPE 118WJ

LINEAR LOW DENSITY POLYETHYLENE

## DESCRIPTION

SABIC® LLDPE 118WJ is a butene linear low density polyethylene resin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hottack properties. The resin contains slip and antiblock additive. SABIC® LLDPE 118WJ is TNPP free.  
This product is not intended for and must not be used in any pharmaceutical/medical applications.

## TYPICAL APPLICATIONS

Shipping sacks, ice bags, frozen food bags, stretch wrap film, produce bags, liners, carrier bags, garbage bags, agricultural films, laminated and coextruded films for meat wrap, frozen food and other food packaging, shrink film (for blending with LDPE), industrial consumer packaging, and high clarity film applications if blended with (10~20%) LDPE.

## TYPICAL PROPERTY VALUES

Revision 20220721

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
190°C and 2.16 kg	1	g/10 min	ASTM D1238
Density <sup>(1)</sup>	918	kg/m³	ASTM D1505
FORMULATION			
Slip agent	☑	-	-
Anti block agent	☑	-	-
MECHANICAL PROPERTIES			
Dart Impact Strength <sup>(2)</sup>	145	g/μm	ASTM D1709
OPTICAL PROPERTIES <sup>(2)</sup>			
Haze	10	%	ASTM D1003
Gloss			
at 60°	60	-	ASTM D2457
FILM PROPERTIES <sup>(2)</sup>			
Tensile Properties			
stress at break, MD	40	MPa	ASTM D882
stress at break, TD	32	MPa	ASTM D882
strain at break, MD	750	%	ASTM D882
strain at break, TD	800	%	ASTM D882
stress at yield, MD	11	MPa	ASTM D882
stress at yield, TD	12	MPa	ASTM D882
1% secant modulus, MD	220	MPa	ASTM D882
1% secant modulus, TD	260	MPa	ASTM D882
Puncture resistance	68	J/mm	SABIC method
Elmendorf Tear Strength			
MD	165	g	ASTM D1922
TD	300	g	ASTM D1922
THERMAL PROPERTIES			