



# SABIC® LLDPE 118WM

## PROVISIONAL TECHNICAL DATA SHEET LINEAR LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LLDPE 118WM is a butene linear low density polyethylene resin typically used for general purpose applications and also suitable for blending with conventional LDPE. Film made from LLDPE 118WM exhibit a good puncture resistance, high tensile strength and good hot tack properties. It contains antioxidant, slip and anti blocking agents.

### 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 20240319

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	0,9	g/10 min	ISO 1133
<b>Density</b>	920	kg/m <sup>3</sup>	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(1)</sup></b>			
<b>Tensile strength</b>			
at Yield, MD	11	MPa	ISO 527-3
at Yield, TD	12	MPa	ISO 527-3
<b>Tensile Elongation</b>			
at Break, MD	750	%	ISO 527-3
at Break, TD	850	%	ISO 527-3
<b>Dart Impact Strength</b>	150	g	ASTM D1709
<b>OPTICAL PROPERTIES</b>			
<b>Haze</b>	17	%	ISO 14782
<b>Gloss @ 45°</b>	45	-	ASTM D2457

(1) Properties have been measured by producing 38 µm film with 2:1 (BUR) using 100% 118WM.

### PROCESSING CONDITIONS

Typical processing conditions for 118WM are: Melt temperature: 195 - 215°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 polyethylene resin within 6 months after delivery.



#### DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

