







# 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  $(10^{\sim}20\%)$  LDPE.

## TYPICAL PROPERTY VALUES

Revision 20240319

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS	
POLYMER PROPERTIES				
Melt Flow Rate (MFR)				
at 190 °C and 2.16 kg	0.9	g/10 min	ISO 1133	
Density	920	kg/m³	ISO 1183	
MECHANICAL PROPERTIES (1)				
Tensile strength				
at Yield, MD	1 1	MPa	ISO 527-3	
at Yield, TD	12	MPa	ISO 527-3	
Tensile Elongation				
at Break, MD	750	%	ISO 527-3	
at Break, TD	850	%	ISO 527-3	
Dart Impact Strength	150	g	ASTM D1709	
OPTICAL PROPERTIES				
Haze	17	%	ISO 14782	
Gloss @ 45°	45	-	ASTM D2457	

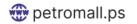
<sup>(1)</sup> Properties have been measured by producing 38 µm film with 2:1 (BUR) using 100% 118WM.

### 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.







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