

SABIC® LLDPE 218WM

PROVISIONAL TECHNICAL DATA SHEET LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 218WM is a butene linear low density polyethylene resin typically used for general purpose packaging. It is easy to process giving good tensile properties, impact strength and optical properties. 218WM contains antioxidant, slip and anti-block additives. This grade is suitable for the production of blown film for light duty applications with a high slip requirement.

TYPICAL APPLICATIONS

Light and medium duty films and stretch films, Lamination film, thin liners, shopping bags, carrier bags, garbage bags, coextruded films, consumer packaging and other general-purpose applications.

TYPICAL PROPERTY VALUES

Revision 20240319

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	920	kg/m ³	ISO 1183
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2	g/10 min	ISO 1133
MECHANICAL PROPERTIES ⁽¹⁾			
Dart Impact Strength	120	g	ASTM D1709
Tensile strength			
at Yield, MD	10	MPa	ISO 527-3
at Yield, TD	11	MPa	ISO 527-3
Tensile Elongation			
at Break, MD	800	%	ISO 527-3
at Break, TD	900	%	ISO 527-3
OPTICAL PROPERTIES			
Haze	17	%	ASTM D1003
Gloss @ 45°	45	-	ASTM D2457

(1) Properties have been measured by producing 38 µm film with 2:1 (BUR) using 100% 218WM.

PROCESSING CONDITIONS

Typical processing conditions for 218WM are: Melt temperature: 185 - 205°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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