

SABIC® LLDPE 218WK

LINEAR LOW DENSITY POLYETHYLENE (PROVISIONAL TECHNICAL DATA SHEET)

DESCRIPTION

SABIC® LLDPE 218WK 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 218WK 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 20260622

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
PHYSICAL ⁽¹⁾			
Density	0.918	g/cm ³	ASTM D792
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2	g/10 min	ASTM D1238
MECHANICAL PROPERTIES ⁽²⁾			
Tensile strength			
at Break, MD	37	MPa	ASTM D882
at Break, TD	26	MPa	ASTM D882
Tensile Elongation			
at Break, MD	620	%	ASTM D882
at Break, TD	770	%	ASTM D882
Dart Impact Strength	70	g	ASTM D1709
OPTICAL PROPERTIES			
Haze	20	%	ASTM D1003
FILM PROPERTIES			
Elmendorf Tear Strength			
MD	120	g	ASTM D1922
TD	340	g	ASTM D1922

(1) Base resin

(2) Properties have been measured by producing 25 µm film (Blow-Up Ratio : 2.5)

PROCESSING CONDITIONS

Typical processing conditions for 218WK 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.

© 2026 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



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.