

PRODUCT NAME: LLDPE 218WJ
Supplier: SABIC®
Product Identification & Description

218WJ is a butene Linear Low Density Polyethylene TNPP free grade suitable for general-purpose packaging. It is easy to process giving good tensile properties, impact strength and optical properties. 218WJ contains slip and antiblock additives.

Typical Applications

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

Physical Properties

Property	Typical Values	Units	Test Methods
Density/Specific Gravity	918	kg/m ³	ASTM D1505
Melt Flow Rate (MFR) at 190°C and 2.16 kg	2	g/10 min	ASTM D1238

Formulation

Slip agent	✓
Anti block agent	✓

Optical Properties

Property	Typical Values	Units	Test Methods
Haze	13	%	ASTM D1003
Gloss at 60°C	80	-	ASTM D2457

Mechanical Properties

Property	Typical Values	Units	Test Methods
Dart Impact Strength	85	g/μm	ASTM D1709

Film Properties

Property	Typical Values	Units	Test Methods
Tensile Properties			
stress at break, MD	35	Mpa	ASTM D882
stress at break, TD	29	Mpa	ASTM D882
strain at break, MD	700	%	ASTM D882
strain at break, TD	750	%	ASTM D882
stress at yield, MD	12	Mpa	ASTM D882
stress at yield, TD	10	Mpa	ASTM D882

Property	Typical Values	Units	Test Methods
1% secant modulus, MD	220	Mpa	ASTM D882
1% secant modulus, TD	260	Mpa	ASTM D882
Elmendorf Tear Strength			
MD	130	g	ASTM D1922
TD	320	g	ASTM D1922

Thermal Properties

Property	Typical Values	Units	Test Methods
Vicat softening temperature	98	°C	ASTM D1525

Processing Conditions

Typical processing conditions for 218WJ 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 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

The information contained herein may include typical properties of our products or their typical performances when used in certain typical applications. Actual properties of our products, in particular when used in conjunction with any third party material(s) or for any non-typical applications, may differ from typical properties. It is the customer's responsibility to inspect and test our product(s) in order to satisfy itself as to the suitability of the product(s) for its and its customers particular purposes. The customer is responsible for the appropriate, safe and legal use, processing and handling of all product(s) purchased from us. Nothing herein is intended to be nor shall it constitute a warranty whatsoever, in particular, warranty of merchantability or fitness for a particular purpose.

Revision: This datasheet replaces all previous versions. **Revision Date:** Mar 2026