# SABIC® LLDPE 218WJ

Linear Low Density Polyethylene

**SABIC**

PROSPECTOR®
www.ulprospector.com

## Technical Data

| Product 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. | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Search for UL Yellow Card | • SABIC | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive | • Antiblock | • Slip | |
| Features | • Antiblocking | • Slip | |
| Uses | • Food Packaging | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 0.918 g/cm³ | 0.918 g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 g/10 min | 2.0 g/10 min | ASTM D1238 |
| **Films** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Secant Modulus [2] | | | ASTM D882 |
| 1% Secant, MD : 1.2 mil (30 µm) | 31900 psi | 220 MPa | |
| 1% Secant, TD : 1.2 mil (30 µm) | 37700 psi | 260 MPa | |
| Tensile Strength [2] | | | ASTM D882 |
| MD : Yield, 1.2 mil (30 µm) | 1740 psi | 12.0 MPa | |
| TD : Yield, 1.2 mil (30 µm) | 1450 psi | 10.0 MPa | |
| MD : Break, 1.2 mil (30 µm) | 5080 psi | 35.0 MPa | |
| TD : Break, 1.2 mil (30 µm) | 4210 psi | 29.0 MPa | |
| Tensile Elongation [2] | | | ASTM D882 |
| MD : Break, 1.2 mil (30 µm) | 700 % | 700 % | |
| TD : Break, 1.2 mil (30 µm) | 750 % | 750 % | |
| Elmendorf Tear Strength [2] | | | ASTM D1922 |
| MD : 1.2 mil (30 µm) | 130 g | 130 g | |
| TD : 1.2 mil (30 µm) | 320 g | 320 g | |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Vicat Softening Temperature | 208 °F | 98.0 °C | ASTM D1525 |
| **Optical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Gloss [2] (60°, 1.18 mil (30.0 µm)) | 80 | 80 | ASTM D2457 |
| Haze [2] (1.18 mil (30.0 µm)) | 13.0 % | 13.0 % | ASTM D1003 |
| **Additional Information** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Dart Impact [3] (1.2 mil (30.0 µm)) | 4800 lbf/in | 833.6 kN/m | ASTM D1709 |
| Puncture Resistance [2] (1.2 mil (30.0 µm)) | 1.18 ft·lb/in | 63.0 J/m | Internal Method |

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.5 BUR using 100% 218NJ

[3] film produced at a BUR of 2.5 using 100% 218NJ



Form No. TDS-400694-en

UL and the UL logo are trademarks of UL LLC © 2021. All Rights Reserved.
UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Document Created: Wednesday, December 15, 2021
Added to Prospector: April 2018
Last Updated: 12/2/2021

## Where to Buy

### Supplier

**SABIC**
Web: http://www.sabic.com/

### Distributor

**3Polymer (Guangzhou) Chemical Technology Co., Ltd.**
Telephone: +86-20-3466-7988
Web: http://3polymer.com
Availability: China

**AECTRA**
Telephone: +33-4-72-54-36-42
Web: https://www.aectra.fr/
Availability: France

**AGI-Augusto Guimarães & Irmão**
Telephone: +351-22753-7400
Web: https://www.agi.pt/en/
Availability: Portugal

**Distrupol Ltd**
*Distrupol Ltd is a Pan European distribution company. Contact Distrupol Ltd for availability of individual products by country.*
Telephone: 08452003040
Web: http://www.distrupol.com/
Availability: Denmark, Finland, Norway, Sweden

**Guzmán Polymers**
Telephone: +34-963-992-400
Web: https://www.guzmanglobal.com/en/productos/plastics/
Availability: Italy, Spain, Turkey

**Plastoplan**
Telephone: +43-1-25040-0
Web: https://www.plastoplan.com/
Availability: Czech Republic, Poland, Slovakia

**RESINEX Group**
*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*
Telephone: +32-14-672511
Web: http://www.resinex.com/
Availability: Europe



Form No. TDS-400694-en

UL and the UL logo are trademarks of UL LLC © 2021. All Rights Reserved.
UL Prospector | 800-788-4668 or 307-742-9227 | www.ulprospector.com.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Document Created: Wednesday, December 15, 2021
Added to Prospector: April 2018
Last Updated: 12/2/2021