SABIC® LDPE HP4024WN

Low Density Polyethylene

SABIC

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Technical Data

Product Description
HP4024WN is a Low Density Polyethylene grade suitable for producing general-purpose films and it gives excellent processability and optical properties with good mechanical properties. HP4024WN contains slip and antiblock additives.

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

Physical	Nominal Value	Unit	Test Method
Density [2]	0.923	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tear Resistance - MD [3] (30.0 µm)	98.1	kN/m	ASTM D1922
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus [3]			ASTM D882
1% Secant, MD : 30 µm	277	MPa	
1% Secant, TD : 30 µm	224	MPa	
Tensile Strength [3]			ASTM D882
MD : Yield, 30 µm	10.0	MPa	
TD : Yield, 30 µm	10.0	MPa	
MD : Break, 30 µm	32.0	MPa	
TD : Break, 30 µm	24.0	MPa	
Tensile Elongation [3]			ASTM D882
MD : Break, 30 µm	270	%	
TD : Break, 30 µm	600	%	
Elmendorf Tear Strength - TD [3] (30.0 µm)	14	g/µm	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	92.0	°C	ASTM D1525
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss [3] (45°, 30.0 µm)	68		ASTM D2457
Haze [3] (30.0 µm)	6.00	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Dart Impact [4] (30.0 µm)	19.6	kN/m	ASTM D1709

Notes

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

[2] 23°C

[3] 2.5 BUR using 100% HP4024WN

[4] film produced at a BUR of 2.5 using 100% HP4024WN

Form No. TDS-400635-en

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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
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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

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