SABIC® LDPE 2201H1W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2201H1W is a grade with a low level of anti block and a medium level of slip agent (E=erucamide). The grade has a very good draw down ability. Films based on 2201H1W combine toughness with high tear strength, good optical properties and low CoF.
Application
SABIC® LDPE 2201H1W is typically used for lamination films, high quality carrier bags and high quality packaging films.
SABIC® LDPE 2201H1W can typically be used for food applications due to very low migration levels.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Additive	Low caking resistance (210 ppm) Erucamide Lubricating Additive (450 ppm)
Features	Low caking resistance Low density Low friction coefficient Optical Good stripping Good tear strength Good toughness Mobility Low to None Moderate smoothness
Uses	Blown Film Packaging Laminate Bags Non-specific food applications
Processing Method	Blow film

Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.85	g/10 min	ISO 1133
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Coefficient of Friction (Blown Film)	0.15		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	170	MPa	ISO 527-3

TD: 50 µm, blown film	170	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	11.0	MPa	ISO 527-3
MD: Broken, 50 µm, blown film	25.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 50 µm, blown film	> 200	%	ISO 527-3
TD: Broken, 50 µm, blown film	> 500	%	ISO 527-3

Impact	Nominal Value	Unit	Test Method
Impact Strength - Blown FIlm (50.0 µm)	250	J/cm	ASTM D4272
Blocking - Blown Film (50.0 µm)	50	g	Internal method
Re-blocking - Blown Film (50.0 µm)		g	Internal method
Tear Strength [1]			ISO 6383-2
MD : 50.0 µm	45.0	kN/m	ISO 6383-2
TD : 50.0 µm	45.0	kN/m	ISO 6383-2

Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	65		ASTM D2457
Haze (50.0 µm, Blown Film)	6.0	%	ASTM D1003A

Additional Information	Nominal Value	Unit	Test Method
Film properties have been measured at film of 50 µm with a BUR of 3.The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.			

NOTE	
1.	Blown Film

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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