SABIC® LDPE 2201H3W

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2201H3W is a grade anti block and slip agent (E=erucamide). The grade has very good draw down ability. Films based on 2201H3W combine toughness with high tear strength, good optical properties and low CoF.
Application
SABIC® LDPE 2201H3W is typically used for thin packaging film purposes, where good optical properties are required.
SABIC® LDPE 2201H3W 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	Erucamide Lubricating Additive (600 ppm) Anti-caking agent (800 ppm)
Features	Low density Low friction coefficient smoothness Optical Anti-caking property Good stripping Good tear strength Good toughness Mobility Low to None
Uses	Blown Film Thin wall packaging 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)	0.20		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	27.0	MPa	ISO 527-3
TD: Broken, 50 µm, blown film	22.0	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)		g	Internal method
Re-blocking - Blown Film (50.0 µm)	10	g	Internal method
Tear Strength [1]			ISO 6383-2
MD : 50.0 µm	45.0	kN/m	ISO 6383-2
TD : 50.0 µm	35.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	96.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	68		ASTM D2457
Haze (50.0 µm, Blown Film)	8.0	%	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

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