SABIC® LDPE 2201H0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2201H0 is a grade without additives with a very good draw down ability. Films based on 2201H0 combine toughness with high tear strength and very good optical properties.
Application
Blown Film: SABIC® LDPE 2201H0 is typically used for thin packaging film purposes, where good optical properties are required.
Cast Film: SABIC® LDPE 2201H0 can typically be used in a wide range of widths and thicknesses for e.g. lamination and bubble film.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Features	Low density Optical Workability, good Good stripping Good tear strength Good toughness
Uses	Blown Film cast film
Processing Method	Blow film cast 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)	1.0		ASTM D1894
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested			
-- [1]	25	µm	
-- [2]	50	µm	
Tensile Modulus			ISO 527-3
MD: 25 µm, cast film	140	MPa	ISO 527-3
TD: 25 µm, cast film	140	MPa	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, 25 µm, cast film	9.00	MPa	ISO 527-3

TD: Yield, 25 µm, cast film	8.00	MPa	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: Fracture, 25 µm, cast film	24.0	MPa	ISO 527-3
TD: Fracture, 25 µm, cast film	17.0	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: Fracture, 25 µm, cast film	260	%	ISO 527-3
TD: Fracture, 25 µm, cast film	580	%	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			ASTM D4272
Blown Film : 50.0 µm	250	J/cm	ASTM D4272
Cast Film : 25.0 µm	220	J/cm	ASTM D4272
Blocking - Blown Film (50.0 µm)	50	g	Internal method
Re-blocking - Blown Film (50.0 µm)	100	g	Internal method
Tear Strength [3]			ISO 6383-2
MD : 50.0 µm	55.0	kN/m	ISO 6383-2
TD : 50.0 µm	45.0	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			ASTM D2457
45, 50.0 µm, blown film	68		ASTM D2457
45, 25.0 µm, cast film	73		ASTM D2457
Haze			ASTM D1003A
50.0 µm, blown film	6.0	%	ASTM D1003A
25.0 µm, cast film	3.6	%	ASTM D1003A
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Cast FilmThe optical and film properties are determined on 25 µm cast film. Die gap 1.0 mm.Blown FilmFilm 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.	Cast Film		
2.	Blown Film		
3.	Blown Film		

Recommended distributors for this material

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