

SABIC® LDPE 2602H0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2602H0 is a grade with very good optical properties. The grade contains no additives, has an increased density and shows a very good draw down ability. The films are characterized by good mechanical properties.

Application

Blown Film: SABIC® LDPE 2602H0 is typically developed for applications where enhanced stiffness is required.

Cast Film: SABIC® LDPE 2602H0 is typically developed for applications, where enhanced stiffness is required. It is used in combination with LLDPE for e.g. diaper film or underblankets. This grade is also suitable for bubble film.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Low density		
	Rigid, good		
	Optical		
	Good stripping		
Uses	Blown Film		
	cast film		
Processing Method	Blow film		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.9	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
Elastic Modulus - MD (25 µm, Cast Film)	140	MPa	ASTM D882
Elastic Modulus - TD (25 µm, Cast Film)	160	MPa	ASTM D882
Tensile Modulus			ISO 527-3
MD: 25 µm, blown film	250	MPa	ISO 527-3
TD: 25 µm, blown film	260	MPa	ISO 527-3
Tensile Strength			
MD: Yield, 25 µm, extruded film	10.0	MPa	ASTM D882
TD: Yield, 25 µm, extruded film	10.0	MPa	ASTM D882
MD: Yield, 25 µm, blown film	13.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	13.0	MPa	ISO 527-3
MD: Broken, 25 µm, extruded film	21.0	MPa	ASTM D882

TD: Broken, 25 µm, extruded film	21.0	MPa	ASTM D882
MD: Broken, 25 µm, blown film	30.0	MPa	ISO 527-3
TD: Broken, 25 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			
MD: Broken, 25 µm, extruded film	300	%	ASTM D882
TD: Broken, 25 µm, extruded film	350	%	ASTM D882
MD: Broken, 25 µm, blown film	> 200	%	ISO 527-3
TD: Broken, 25 µm, blown film	> 500	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Impact Strength			ASTM D4272
Blown Film : 25.0 µm	150	J/cm	ASTM D4272
Cast Film : 25.0 µm	130	J/cm	ASTM D4272
Blocking - Blown Film (25.0 µm)	10	g	Internal method
Re-blocking - Blown Film (25.0 µm)	30	g	Internal method
Tear Strength ¹			ISO 6383-2
MD : 25.0 µm	90.0	kN/m	ISO 6383-2
TD : 25.0 µm	40.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	99.0	°C	ISO 306/A
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45, 25.0 µm, blown film	64		ASTM D2457
45, 25.0 µm, cast film	86		ASTM D2457
Haze			ASTM D1003
25.0 µm, blown film	7.0	%	ASTM D1003
25.0 µm, cast film	1.5	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Blown FilmFilm properties have been measured at film of 25 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.Cast FilmThe optical and film properties are determined on 25 µm cast film. Die gap 1.0 mm.			
NOTE			
1.	Blown Film		

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