

SABIC® LDPE 2602TH33

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2602TH33 is a grade with high optical properties and an increased density. The grade contains a very high level of anti block and a medium level of slip agent (E=erucamide). Films produced out of 2602TH33 combine low CoF with excellent optical properties.

SABIC® LDPE 2602TH33 is particularly suitable for bread bags and other films for high speed automatic packaging lines.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information			
Additive	Erucamide Lubricating Additive (750 ppm)		
	Anti-caking agent (1000 ppm)		
Features	High caking resistance		
	Optical		
	The smell is low to none		
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	Definition, high		
	Moderate smoothness		
Uses	Packaging		
	Films		
Forms	Particle		
Processing Method	Blow 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)	2.5	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
Tensile Modulus			ISO 527-3
MD: 25 µm, blown film	230	MPa	ISO 527-3
TD: 25 µm, blown film	240	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 25 µm, blown film	12.0	MPa	ISO 527-3
TD: Yield, 25 µm, blown film	12.0	MPa	ISO 527-3
MD: 25 µm, blown film	25.0	MPa	ISO 527-3
TD: 25 µm, blown film	20.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3

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 (25.0 µm) ¹	200	J/cm	ASTM D4272
Blocking (25.0 µm) ²		g	Internal method
Re-blocking (25.0 µm) ³		g	ISO 6383-2
Tear Strength ⁴			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
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	60		ASTM D2457
Haze (25.0 µm, Blown Film)	8.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method

Film 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.

NOTE

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| 1. | Blown Film |
| 2. | Blown Film |
| 3. | Blown Film |
| 4. | Blown Film |

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