

SABIC® LDPE 2501TH00

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2501TH00 is an additive free clarity grade, which combines excellent film processability with very good optical properties and stiffness.

General Information			
Features	Rigid, good		
	Optical		
	Workability, good		
	The smell is low to none		
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	Definition, high		
Uses	Films		
	Laminate		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	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	50	µm	
Tensile Modulus			ISO 527-3
MD: 50 µm, blown film	200	MPa	ISO 527-3
TD: 50 µm, blown film	200	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: Yield, 50 µm, blown film	12.0	MPa	ISO 527-3
TD: Yield, 50 µm, blown film	12.0	MPa	ISO 527-3
MD: 45 µm, blown film	25.0	MPa	ISO 527-3
TD: 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
Total Energy Impact (50 µm, Blown Film)	0.750	J	ASTM D4272
Elmendorf Tear Strength			ISO 6383-2
MD: 45 µm, blown film	2.8	N	ISO 6383-2
TD: 50 µm, blown film	2.8	N	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	102	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 50.0 µm, Blown Film)	65		ASTM D2457
Haze (50.0 µm, Blown Film)	7.0	%	ASTM D1003
Clarity	0.0150	V	Internal method
Blocking	20	g	Internal method
Re-blocking		g	Internal method
NOTE			

1. 速率 A (50°C/h)

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