

SABIC® LDPE 2308AN00

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 2308AN00 is a low density polyethylene product. It can be processed by film extrusion, blow molding, extrusion coating or injection molding, and is available in Europe. SABIC® LDPE 2308AN00 applications include foam and food contact applications. The main characteristics are: high liquidity.

General Information	
Features	Foamable property
	High liquidity
Uses	Foam
	Profile
Agency Ratings	EEC 2002/72/EC
	FDA 21 CFR 177.1520
Forms	Particle
Processing Method	Film extrusion
	Blow molding
	Extrusion coating
	Injection molding

Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	7.5	g/10 min	ISO 1133
190°C/5.0 kg	27	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	9.80	cm ³ /10min	ISO 1133
190°C/5.0 kg	35.0	cm ³ /10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	47		ISO 868
Ball Indentation Hardness (H 49/30)	19.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	225	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	10.0	MPa	ISO 527-2/1BA/50

Fracture, 2.00mm, molded	12.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	700	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	105	MPa	ISO 899-1
1000 hr	69.0	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method

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Notched Izod Impact (23°C)	50	kJ/m ²	ISO 180/1A
Tensile Impact Strength	100	kJ/m ²	ISO 8256/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	41.0	°C	ISO 75-2/B
Vicat Softening Temperature	94.0	°C	ISO 306/A50

Additional Information

Modulus of Elasticity, SABIC Method: 300 MPaMelting Point, SABIC Method, DSC: 109°CCrystallization Temperature, SABIC Method, DSC: 98°CAverage Heat of Fusion, SABIC Method, DSC: 115 J/gESCR, SABIC Method, Determined in Rhodacal-DS10 at 60°C, 2 N/mm², thickness 3mm: 40hrTensile Impact Elongation at Break, ISO 8256, Type 1, Method B: 8.4%Tensile Impact Maximum Tension, ISO 8256, Type 1, Method B: 19 MPaMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 109°CEntalpy Change, DIN 53765: 115J/g

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