

SABIC® LDPE 1815AN00

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 1815AN00 is an additive free autoclave grade with a specific broad molecular weight distribution and a low viscosity. The material can be processed at high speeds, at low coating weights and for coextrusion with e.g. a bonding polymer, where fthin layers are required. Due to it's low zero viscosity it can be used for coatings with non wovens and textiles. Moreover it permits a low welding temperature (< 100 °C).

General Information			
Features	Low speed solidification crystal point		
	Low viscosity		
	Wide molecular weight distribution		
Uses	Films		
	Composite		
	Masterbatch		
	Coating application		
	Non-woven fabric coating		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Film extrusion		
	Composite		
	Extrusion coating		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance ¹ (60°C, 2.00mm, molded)	2.00	hr	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/200
Yield, 1.60mm, molded	8.00	MPa	ISO 527-2/200
Fracture, 1.60mm, molded	14.0	MPa	ISO 527-2/200
Tensile Strain (fracture, 1.60mm, molded)	490	%	ISO 527-2/200
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	

Tensile Stress			ISO 527-3
MD: Yield, 25 μm	8.00	MPa	ISO 527-3
TD: Yield, 25 μm	8.00	MPa	ISO 527-3
MD : 25 μm	11.0	MPa	ISO 527-3
TD : 25 μm	9.00	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Break, 25 μm	350	%	ISO 527-3
TD: Break, 25 μm	300	%	ISO 527-3
Water Vapor Transmission Rate (38°C, 100% RH, 25 μm)	22	$\text{g/m}^2/24 \text{ hr}$	Internal method
Oxygen Permeability (23°C, 25.0 μm) ²	0.90	$\text{cm}^3/\text{cm}^2/\text{bar}/24 \text{ hr}$	Internal method
Enthalpy Change	97.0	J/g	DIN 53765
Flexural Crack Resistance (25.0 μm) ³	3000	cycles/10 holes	Internal method
Tear Strength			ISO 6383-2
MD : 25.0 μm	9.0	kN/m	ISO 6383-2
TD : 25.0 μm	7.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.0	°C	ISO 306/A50
Melting Temperature (DSC)	105	°C	DIN 53765
NOTE			
1.	2 MPa		
2.	0% RH		
3.	cycles/10 holes		

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Recommended distributors for this material

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