

SABIC® LDPE 1815AF00

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 1815AF00 is an autoclave grade without additives. The material can be processed at high speeds, at low coating weights and for coextrusion with e.g. a bonding polymer, where thin layers are required. The material has a very low gel level.

General Information			
Features	Low speed solidification crystal point		
Uses	Coating application		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Co-extrusion molding		
	Extrusion coating		
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	g/m ² /24 hr	Internal method
Oxygen Permeability (23°C, 25.0 µm) ²	0.90	cm ³ /cm ² /bar/24 hr	Internal method

Enthalpy Change	97.0	J/g	DIN 53765
Flexural Crack Resistance (25.0 μm)	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
Melting Temperature (DSC)	105	°C	DIN 53765
NOTE			
1.	2 MPa		
2.	0% RH		

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Recommended distributors for this material

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