

SABIC® LDPE 1922N0

Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LDPE 1922N0 is an additive free LDPE grade produced by SABIC's CTR® tubular technology. This grade is typically developed for food contact applications that require high product quality, consistency and high level of purity. SABIC will offer for SABIC® LDPE 1922N0 the full food compliance service package.

Application.

SABIC® LDPE 1922N0 is typically suitable for applications that require a good balance between flow properties and mechanical properties.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Additive Free		
	Food Contact Acceptable		
	High Purity		
	Low Density		
Uses	Masterbatch		
	Non-specific Food Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.919	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	22	g/10 min	
190°C/5.0 kg	75	g/10 min	
Melt Volume-Flow Rate (MVR)			ISO 1133
190°C/2.16 kg	29.0	cm ³ /10min	
190°C/5.0 kg	98.0	cm ³ /10min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	40		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	175	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	8.00	MPa	
Break, 2.00 mm, Compression Molded	7.00	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	400	%	ISO 527-2/1BA/50
Tensile Creep Modulus ¹			ISO 899-1
1 hr	80.0	MPa	
1000 hr	45.0	MPa	

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	5.0	kJ/m ²	
23°C, Compression Molded	42	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	39.0	°C	ISO 75-2/B
Vicat Softening Temperature	82.0 to 83.0	°C	ISO 306/A
Melting Temperature (DSC)	105 to 107	°C	DIN 53765
Enthalpy Change	104	J/g	DIN 53765
NOTE			

1. 4mm

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