



SABIC® LDPE 1922N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 1922N0 is an additive free LDPE grade produced by SABICs CTR® tubular technology. This grade is typically used 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 used 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.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 5 kg	75	dg/min	ISO 1133
at 190 °C and 2.16 kg	22	dg/min	ISO 1133
Melt volume rate (MVR)			
at 190 °C and 5 kg	98	ml/10 min	ISO 1133
at 190 °C and 2.16 kg	29	ml/10 min	ISO 1133
Density	919	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test ^{(1) (2)}			
tensile modulus	175	MPa	ISO 527-2
strain at break	400	%	ISO 527-2
stress at yield	8	MPa	ISO 527-2
stress at break	7	MPa	ISO 527-2
Creep modulus ^{(3) (4)}			
after 1000 hours	45	MPa	ISO 899
after 1 hour	80	MPa	ISO 899
Izod impact notched			
at -30 °C	5.0	kJ/m ²	ISO 180/A
at 23 °C	42	kJ/m ²	ISO 180/A
Hardness Shore D	40	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ⁽⁵⁾			
at 1.80 MPa (HDT/A)	39	°C	ISO 75-2
Vicat Softening Temperature			
at 10 N (VST/A)	83	°C	ISO 306
DSC test			
melting point	107	°C	DIN 53765
enthalpy change	104	J/g	DIN 53765