

# SABIC® LDPE 2102N3W

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2102N3W is a general purpose grade with a high level of anti block and slip agent. This grade offers good optical properties.

#### Application

SABIC® LDPE 2102N3W is typically used for packaging films for food and industrial goods and for lamination films.

SABIC® LDPE 2102N3W can typically be used for food applications due to very low migration levels.

#### Film properties

Film properties have been measured at film of 25 µm with a BUR of 3.

The film has been produced on Kiefel IBC blown film line with 200 kg/h. Die size 200 mm, die gap 0.8 mm.

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
<b>POLYMER PROPERTIES</b>			
Density	921	kg/m <sup>3</sup>	ISO 1183
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	2.5	dg/min	ISO 1133
<b>OPTICAL PROPERTIES</b>			
Haze	12	%	ASTM D1003
Clarity	30	mV	SABIC method
<b>FILM PROPERTIES</b>			
Impact strength	20	kJ/m	ASTM D4272
Tear strength TD	20	kN/m	ISO 6383-2
Tear strength MD	50	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Yield stress TD	11	MPa	ISO 527-3
Stress at break MD	30	MPa	ISO 527-3
Modulus of elasticity TD	190	MPa	ISO 527-3
Yield stress MD	13	MPa	ISO 527-3
Stress at break TD	18	MPa	ISO 527-3
<b>Tensile test film</b>			
Strain at break MD	>100	%	ISO 527-3
Strain at break TD	>500	%	ISO 527-3
Coefficient of friction	0.2	-	ASTM D1894
Blocking	<5	g	SABIC method
Re-blocking	10	g	SABIC method
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	90	°C	ISO 306