

# SABIC® LDPE 2101NOW

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2101NOW is a grade with good toughness and biaxial shrink properties. The material contains no additives, has a low energy consumption during processing and a good draw down ability.

#### Application

SABIC® LDPE 2101NOW is typically used for thin shrink film.

SABIC® LDPE 2101NOW can typically be used for food applications due to very low migration levels.

#### Film properties

Film properties have been measured at 50 µm film with a BUR of 3.

The film has been produced on Kiefel IBC film blown line at 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
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.85	dg/min	ISO 1133
<b>OPTICAL PROPERTIES</b>			
Haze	9	%	ASTM D1003
Clarity	30	mV	SABIC method
<b>FILM PROPERTIES</b>			
Impact strength	25	kJ/m	ASTM D4272
Tear strength TD	30	kN/m	ISO 6383-2
Tear strength MD	40	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Yield stress TD	11	MPa	ISO 527-3
Stress at break MD	25	MPa	ISO 527-3
Stress at break TD	20	MPa	ISO 527-3
Modulus of elasticity TD	170	MPa	ISO 527-3
<b>Tensile test film</b>			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	1.0	-	ASTM D1894
Blocking	50	g	SABIC method
Re-blocking	50	g	SABIC method
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	93	°C	ISO 306