

SABIC® LDPE 2102NOW

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2102NOW is a general purpose grade without additives. This grade offers a high output and a very good draw down.

Application

SABIC® LDPE 2102NOW is typically used for general purpose film applications and for lamination film. SABIC® LDPE 2102NOW 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
POLYMER PROPERTIES			
Density	921	kg/m ³	ISO 1183
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	2.5	dg/min	ISO 1133
OPTICAL PROPERTIES			
Gloss (45°)	53	%	ASTM D2457
Haze	10	%	ASTM D1003
Clarity	26	mV	SABIC method
FILM PROPERTIES			
Impact strength	20	kJ/m	ASTM D4272
Tear strength TD	25	kN/m	ISO 6383-2
Tear strength MD	70	kN/m	ISO 6383-2
Tensile test film			
Modulus of elasticity TD	190	MPa	ISO 527-3
Stress at break TD	17	MPa	ISO 527-3
Stress at break MD	30	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Tensile test film			
Strain at break MD	>100	%	ISO 527-3
Strain at break TD	>500	%	ISO 527-3
Coefficient of friction			
Blocking	>1	-	ASTM D1894
Re-blocking	20	g	SABIC method
Re-blocking	50	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	91	°C	ISO 306