

SABIC® LDPE 2100N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2100N0 is a grade with very good toughness and biaxial shrink properties. The material contains no additives, has a very low energy consumption during processing and has good draw down ability.

Application

SABIC® LDPE 2100N0 is a heavy duty film grade typically used for applications like shrink hoods, industrial sacks, carrier bags and liners.

Film properties

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

Films have been produced on Kiefel IBC film blown line at 200 kg/h. Die size 200 mm, die gap of 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			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.33	dg/min	ISO 1133
Density	921	kg/m³	ASTM D1505
OPTICAL PROPERTIES			
Haze	12	%	ASTM D1003
FILM PROPERTIES			
Impact strength	30	kJ/m	ASTM D4272
Tear strength TD	30	kN/m	ISO 6383-2
Tear strength MD	30	kN/m	ISO 6383-2
Tensile test film			
Stress at break TD	23	MPa	ISO 527-3
Stress at break MD	28	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Modulus of elasticity TD	190	MPa	ISO 527-3
Tensile test film			
Strain at break MD	>200	%	ISO 527-3
Strain at break TD	>500	%	ISO 527-3
Coefficient of friction	1.0	-	ASTM D1894
Blocking	20	g	SABIC method
Re-blocking	10	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	93	°C	ISO 306