

SABIC® LDPE 2500N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2500N0 is a grade without additives with very good shrink properties, stiffness and good bundle force. The grade has a good draw down ability.

Application

SABIC® LDPE 2500N0 is typically used for application in shrinkhoods, industrial sacks, heavy duty bags and liners.

Film properties

Film properties have been measured at film of 50 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			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.4	dg/min	ISO 1133
Density	925	kg/m³	ASTM D1505
OPTICAL PROPERTIES			
Haze	11	%	ASTM D1003
FILM PROPERTIES			
Impact strength	20	kJ/m	ASTM D4272
Tear strength TD	40	kN/m	ISO 6383-2
Tear strength MD	35	kN/m	ISO 6383-2
Tensile test film			
Stress at break MD	27	MPa	ISO 527-3
Modulus of elasticity TD	210	MPa	ISO 527-3
Yield stress TD	12	MPa	ISO 527-3
Stress at break TD	23	MPa	ISO 527-3
Tensile test film			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	0.9	-	ASTM D1894
Blocking	20	g	SABIC method
Re-blocking	<5	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	98	°C	ISO 306