

SABIC® LDPE 2501NO

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2501NO is a grade without additives with a low gel level, which combines good draw down ability with fair optical properties and stiffness.

Application

SABIC® LDPE 2501NO is typically used in diaper film, surface protection film, lamination film and in applications where low blocking behavior is required and the presence of slip and anti block is unwanted.

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	0.75	dg/min	ISO 1133
Density	925	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Haze	10	%	ASTM D1003
FILM PROPERTIES			
Impact strength	15	kJ/m	ASTM D4272
Tear strength TD	45	kN/m	ISO 6383-2
Tear strength MD	45	kN/m	ISO 6383-2
Tensile test film			
Modulus of elasticity TD	200	MPa	ASTM D882
Yield stress TD	12	MPa	ASTM D882
Yield stress MD	10	MPa	ISO 527-3
Stress at break MD	25	MPa	ASTM D882
Stress at break TD	20	MPa	ASTM D882
Modulus of elasticity MD	150	MPa	ISO 527-3
Tensile test film			
Strain at break MD	>200	%	ASTM D882
Strain at break TD	>500	%	ASTM D882
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