

SABIC® LDPE 2201H1

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2201H1 is a grade with a low level of anti block and a medium level of slip agent. The grade has a very good draw down ability. Films based on 2201H1 combine toughness with high tear strength, good optical properties and low CoF.

Application

SABIC® LDPE 2201H1 is typically developed for lamination films, high quality carrier bags and high quality packaging films.

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	0.85	dg/min	ISO 1133
Density	922	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	65	%	ASTM D2457
Haze	6	%	ASTM D1003
FILM PROPERTIES			
Impact strength	25	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			
Stress at break MD	25	MPa	ISO 527-3
Stress at break TD	20	MPa	ISO 527-3
Yield stress MD	11	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
Modulus of elasticity TD	170	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	0.15	-	ASTM D1894
Blocking	50	g	SABIC method
Re-blocking	<5	g	SABIC method