



# SABIC® LDPE 2201H3W

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2201H3W is a grade anti block and slip agent. The grade has very good draw down ability. Films based on 2201H3W combine toughness with high tear strength, good optical properties and low CoF.

#### Application

SABIC® LDPE 2201H3W is typically used for thin packaging film purposes, where good optical properties are required.

SABIC® LDPE 2201H3W can typically be used for food applications due to very low migration levels.

#### 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
<b>POLYMER PROPERTIES</b>			
Density	922	kg/m <sup>3</sup>	ISO 1183
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	0.85	dg/min	ISO 1133
<b>OPTICAL PROPERTIES</b>			
Gloss (45°)	68	%	ASTM D2457
Haze	8	%	ASTM D1003
<b>FILM PROPERTIES</b>			
Impact strength	25	kJ/m	ASTM D4272
Tear strength TD	35	kN/m	ISO 6383-2
Tear strength MD	45	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Yield stress TD	11	MPa	ISO 527-3
Stress at break TD	22	MPa	ISO 527-3
Modulus of elasticity TD	170	MPa	ISO 527-3
Stress at break MD	27	MPa	ISO 527-3
<b>Tensile test film</b>			
Strain at break TD	>500	%	ISO 527-3
Strain at break MD	>200	%	ISO 527-3
Coefficient of friction	0.2	-	ASTM D1894
Blocking	<5	g	SABIC method
Re-blocking	10	g	SABIC method
<b>THERMAL PROPERTIES</b>			
<b>Vicat Softening Temperature</b>			
at 10 N (VST/A)	96	°C	ISO 306