

# SABIC® LDPE 2200H2

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2200H2 is a grade with a low melt flow rate and contains a low level of anti block and a medium level of slip agent. This grade shows a good draw down ability and good optical properties.

#### Application

SABIC® LDPE 2200H2 is typically used for thin film applications requiring high strength and thin shrink film with high shrink forces and wrapping strength. Typical applications are lamination and coextruded 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
<b>POLYMER PROPERTIES</b>			
<b>Melt Flow Rate (MFR)</b>			
at 190 °C and 2.16 kg	0.33	dg/min	ISO 1133
<b>Density</b>	922	kg/m³	ASTM D1505
<b>OPTICAL PROPERTIES</b>			
<b>Gloss (45°)</b>	57	%	ASTM D2457
<b>Haze</b>	9	%	ASTM D1003
<b>FILM PROPERTIES</b>			
<b>Impact strength</b>	30	kJ/m	ASTM D4272
<b>Tear strength TD</b>	40	kN/m	ISO 6383-2
<b>Tear strength MD</b>	35	kN/m	ISO 6383-2
<b>Tensile test film</b>			
Stress at break MD	27	MPa	ISO 527-3
Modulus of elasticity TD	190	MPa	ISO 527-3
Stress at break TD	22	MPa	ISO 527-3
Yield stress TD	11	MPa	ISO 527-3
<b>Tensile test film</b>			
Strain at break MD	>200	%	ISO 527-3
Strain at break TD	>500	%	ISO 527-3
<b>Coefficient of friction</b>	0.2	-	ASTM D1894
<b>Blocking</b>	20	g	SABIC method
<b>Re-blocking</b>	<5	g	SABIC method