

# SABIC® LDPE 2801HOW

## LOW DENSITY POLYETHYLENE

### DESCRIPTION

SABIC® LDPE 2801HOW offers high production output with very good optical properties, as well as good stiffness toughness balance.

#### Application

SABIC® LDPE 2801HOW is typically used for high clarity collation shrink films, glossy automatic packaging printed films and deep freeze films. SABIC® LDPE 2801HOW can typically be used for food applications due to very low migration levels.

#### Film properties

Film properties have been measured at 30 µm film with a BUR of 3.

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	928	kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.55	dg/min	ISO 1133
<b>OPTICAL PROPERTIES</b>			
Gloss (45°)	70	%	ASTM D2457
Haze	6	%	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>			
Stress at break MD	21	MPa	ISO 527-3
Modulus of elasticity TD	340	MPa	ISO 527-3
Yield stress TD	14	MPa	ISO 527-3
Stress at break TD	22	MPa	ISO 527-3
Yield stress MD	13	MPa	ISO 527-3
Modulus of elasticity MD	290	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>	1	-	ASTM D1894
<b>Blocking</b>	10	g	SABIC method
<b>Re-blocking</b>	30	g	SABIC method
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature			
at 10 N (VST/A)	106	°C	ISO 306