

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
POLYMER PROPERTIES			
Density	922	kg/m ³	ISO 1183
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.85	dg/min	ISO 1133
OPTICAL PROPERTIES			
Gloss (45°)	68	%	ASTM D2457
Haze	8	%	ASTM D1003
FILM PROPERTIES			
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
Tensile test film			
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
Tensile test film			
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
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	96	°C	ISO 306