

SABIC® LDPE 2200H0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2200H0 is a grade with a low melt flow range and contains no additives. This grade has a good draw down ability and very good optical properties.

Application

SABIC® LDPE 2200H0 is typically used for thin film applications combining high strength and good optical properties.

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	0.33	dg/min	ISO 1133
Density	922	kg/m³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	57	%	ASTM D2457
Haze	8	%	ASTM D1003
FILM PROPERTIES			
Impact strength	30	kJ/m	ASTM D4272
Tear strength TD	40	kN/m	ISO 6383-2
Tear strength MD	35	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	190	MPa	ISO 527-3
Stress at break MD	27	MPa	ISO 527-3
Tensile test film			
Strain at break MD	>200	%	ISO 527-3
Strain at break TD	>500	%	ISO 527-3
Coefficient of friction	1.0	-	ASTM D1894
Blocking	30	g	SABIC method
Re-blocking	10	g	SABIC method
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	98	°C	ISO 306