

SABIC[®] LLDPE 6218B

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC[®] LLDPE 6218B is a hexene-linear low density polyethylene. ApplicationTypical application for SABIC[®] LLDPE6218B Film propertiesFilm of 50 µm with BUR=2 is produced on Kiefel IBC with 140 kg/h. Die size 200 mm, die gap 1.8 mm.The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 2.16 kg	2.2	dg/min	ISO 1133
Density	918	kg/m ³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	27	%	ASTM D2457
Haze	35	%	ASTM D1003
Clarity	11	mV	SABIC method
FILM PROPERTIES			
Impact strength	28	kJ/m	ASTM D4272
Tear strength TD	260	kN/m	ISO 6383-2
Tear strength MD	80	kN/m	ISO 6383-2
Puncture resistance	650	J/m	SABIC method
Tensile test film			
Yield stress MD	11.5	MPa	ISO 527-3
Modulus of elasticity TD	240	MPa	ISO 527-3
Strain at break TD	750	%	ISO 527-3
Strain at break MD	650	%	ISO 527-3
Modulus of elasticity MD	200	MPa	ISO 527-3
Yield stress TD	12.5	MPa	ISO 527-3
Stress at break TD	30	MPa	ISO 527-3
Stress at break MD	31	MPa	ISO 527-3
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	103	°C	ISO 306
DSC test			
melting point	125	°C	SABIC method

QUALITY

SABIC Europe is fully certified in accordance with the internationally accepted quality standard ISO 9001.