



SABIC® LLDPE 118NJ

Linear low density polyethylene for Blown film

Description

SABIC® LLDPE 118NJ is a butene linear low density polyethylene resin typically used for general purpose applications. Films produced from this resin are tough with good puncture resistance, high tensile strength and good hottack properties. SABIC® LLDPE 118NJ is TNPP free.

Application

Typical applications for SABIC® LLDPE 118NJ are shipping sacks, ice bags, frozen food bags, liners, carrier bags, garbage bags, agriculture films, lamination and coextruded films, shrink film (for blending with LDPE), industrial consumer packaging and high clarity film if blended with (10-20%) LDPE.

Film properties

Film of 50 µm and BUR=2 has been produced on Kiefel IBC with 140 kg/h. Die size 200 mm, die gap 2,7 mm.

This product is not intended for and must not be used in any pharmaceutical/medical applications.

Typical data.

Revision 20160329

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg	dg/min	1.0	ISO 1133
Density	kg/m ³	918	ISO 1183 (A)
Formulation			
Anti oxidant		+	SABIC method
Optical properties			
Gloss (45°)	%	50	ASTM D2457
Haze	%	13	ASTM D1003A
Film properties			
Impact strength	kJ/m	22	ASTM D4272
Tear strength TD	kN/m	120	ISO 6383-2
Tear strength MD	kN/m	40	ISO 6383-2
Puncture resistance	J/m	630	SABIC method
Tensile test film			
Yield stress TD	MPa	11	ISO 527-3
Yield stress MD	MPa	11	
Stress at break TD	MPa	30	
Stress at break MD	MPa	37	
Strain at break TD	%	850	
Strain at break MD	%	700	
Modulus of elasticity TD	MPa	180	
Modulus of elasticity MD	MPa	160	
Thermal properties			
Vicat softening temperature at 10 N (VST/A)	°C	100	ISO 306
DSC test melting point	°C	121	SABIC method