

# **LLDPE 118WJ**

## Linear low density polyethylene for Blown film

### Description

LLDPE 118WJ is a butene linear low density polyethylene resin for general purpose applications. Films produced from this resin are tough with excellent puncture resistance, high tensile strength and good hottack properties. The resin contains anti block and slip erucamide. LLDPE 118WJ is TN-PP free.

#### **Application**

Typical applications for LLDPE 118WJ 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.

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

Properties	Units SI	Values	Test methods
Polymer properties			
Melt flow rate (MFR) at 190 °C and 2.16 kg Density	dg/min 1) kg/m³	1.0 918	ISO 1133 ISO 1183 (A)
Formulation	· Kg/III	310	100 1100 (1)
Slip Anti block Anti oxidant	mg/kg mg/kg	1500 3500 +	SABIC method SABIC method SABIC method
Optical properties			
Gloss (45°) Haze	% %	42 20	ASTM D 2457 ASTM D 1003A
Film properties			
Impact strength Tear strength TD Tear strength MD Puncture resistance Tensile test film Yield stress TD Yield stress MD Stress at break TD Stress at break MD Strain at break MD Modulus of elasticity TD Modulus of elasticity MD Coefficient of friction Blocking Re-blocking	kJ/m kN/m kN/m J/m  MPa MPa MPa MPa % % MPa MPa g	22 120 40 380 11 11 30 37 800 600 180 160 0.1 15	ASTM D 4272 ISO 6383-2 ISO 6383-2 SABIC method ISO 527-3  ISO 8295 SABIC method SABIC method
Thermal properties			
Vicat softening temperature at 10 N (VST/A) DSC test	°C	101	ISO 306 SABIC method
melting point	°C	121	