

SABIC® LLDPE 726NE

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 726NE is a butene linear low density polyethylene resin. This grade gives blown films a relatively high stiffness for good machinability and a good overall balance of other performance properties, such as puncture resistance, impact strength and heat sealability.

Application

Typical applications for SABIC® LLDPE 726NE are shipping sacks, produce bags, can liners and carrier bags. SABIC® LLDPE 726NE has very good optical properties when blended with a LDPE (15-85%).

Film properties

Film of 50 µm and BUR=2 has been produced on Kiefel IBC with 130 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 PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190 °C and 2.16 kg	0.7	dg/min	ISO 1133
Density	925	kg/m³	ASTM D1505
OPTICAL PROPERTIES			
Gloss (45°)	60	%	ASTM D2457
Haze	12	%	ASTM D1003
FILM PROPERTIES			
Impact strength	16	kJ/m	ASTM D4272
Tear strength TD	130	kN/m	ISO 6383-2
Tear strength MD	20	kN/m	ISO 6383-2
Puncture resistance	650	J/m	SABIC method
Tensile test film			
Strain at break TD	850	%	ISO 527-3
Strain at break MD	650	%	ISO 527-3
Stress at break MD	45	MPa	ISO 527-3
Stress at break TD	35	MPa	ISO 527-3
Modulus of elasticity TD	240	MPa	ISO 527-3
Modulus of elasticity MD	220	MPa	ISO 527-3
Yield stress TD	14	MPa	ISO 527-3
Yield stress MD	13	MPa	ISO 527-3
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 10 N (VST/A)	110	°C	ISO 306
DSC test			
melting point	124	°C	SABIC method