

SABIC® LLDPE 6135BE

LINEAR LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LLDPE 6135BE is a hexene-1 copolymer medium density grade, which combines good extrusion performance, mechanical properties, ESCR and low migration values. Application. SABIC® LLDPE 6135BE is typically used in high demanding extrusions segments like e.g. sheet and more specific geo-membranes. Properties. Tensile test is determined on compression moulded specimen (1.6 mm thick) at 200 mm/min. NCTL conditions: 5 MPa, 60 °C and 2 % surfactant. 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			
Colour	natural	-	-
Colour code	00900	-	-
Melt Flow Rate			
at 190 °C and 2.16 kg	0.8	dg/min	ISO 1133
at 190 °C and 5 kg	2.4	dg/min	ISO 1133
Density	932	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test			
tensile modulus	620	MPa	ISO 527-2
strain at yield	12	%	ISO 527-2
stress at yield	18	MPa	ISO 527-2
Tensile test			
strain at break	> 700	%	ISO 527-2
Charpy Impact Strength Notched			
at -30 °C	9	kJ/m ²	ISO 179/1eA
at 23 °C	30	kJ/m ²	ISO 179/1eA
Hardness Shore D	54	-	ISO 868
Notched Constant Tensile Load ⁽¹⁾	> 2000	h	ASTM D5397
OIT 210 °C	> 50	min	ISO 11357-6
THERMAL PROPERTIES			
Vicat Softening Temperature			
at 50 N (VST/B)	60	°C	ISO 306
DSC test			
melting point	118 – 122	°C	DIN 53765

(1) 5 MPa, 60 °C, 2% surfactant