

SABIC® LDPE 2008N0

LOW DENSITY POLYETHYLENE

DESCRIPTION

SABIC® LDPE 2008N0 is a LDPE tubular grade without additives. SABIC® LDPE 2008N0 is produced using SABIC Clean Tubular Reactor (CTR) Technology with typically high purity.

Application

SABIC® LDPE 2008N0 is typically used as carrier resin for masterbatch and compounding applications.

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	7.5	dg/min	ISO 1133
at 190 °C and 5 kg	28	dg/min	ISO 1133
Melt volume rate (MVR)			
at 190 °C and 2.16 kg	10	ml/10 min	ISO 1133
at 190 °C and 5 kg	33	ml/10 min	ISO 1133
Density	920	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test ⁽¹⁾			
stress at break	10	MPa	ISO 527/1A
tensile modulus	130	MPa	ISO 527/1A
strain at break	120	%	ISO 527/1A
stress at yield	8	MPa	ISO 527/1A
Izod impact notched			
at 23 °C	45	kJ/m ²	ISO 180/A
at -30 °C	9	kJ/m ²	ISO 180/A
Hardness Shore D	40	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ^{(2) (3)}			
at 0.45 MPa (HDT/B)	43	°C	ISO 75-2
Vicat Softening Temperature			
at 10 N (VST/A)	89	°C	ISO 306
DSC test			
melting point	107	°C	DIN 53765
enthalpy change	125	J/g	DIN 53765

(1) Speed of testing: 50 mm/min

(2) Based on injection moulded test specimens

(3) Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours