



SABIC® HDPE W1464

HIGH DENSITY POLYETHYLENE

DESCRIPTION

SABIC® HDPE W1464 is a high density polyethylene with a narrow molecular weight distribution. To this grade, additives are not intentionally added.

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	14	dg/min	ISO 1133
Density ⁽¹⁾	964	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ^{(1) (2)}			
Tensile test ^{(3) (4)}			
stress at yield	32	MPa	ISO 527-2
stress at break	15	MPa	ISO 527-2
strain at break	>200	%	ISO 527-2
tensile modulus	1450	MPa	ISO 527-2
Flexural test			
Flexural modulus	1700	MPa	ISO 178
Flexural strength	32	MPa	ISO 178
Izod impact notched			
at 23 °C	4	kJ/m ²	ISO 180/A
Hardness Shore D	65	-	ISO 868
THERMAL PROPERTIES			
Heat deflection temperature ^{(1) (2)}			
at 0.45 MPa (HDT/B)	94	°C	ISO 75-2
Vicat Softening Temperature ^{(1) (2)}			
at 10 N (VST/A)	129	°C	ISO 306
DSC test			
melting point	134	°C	ISO 11357-3
enthalpy change	226	J/g	ISO 11357-3

(1) Compression moulding of test specimen according to ISO 1872-2

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

(3) Speed of testing: 50 mm/min

(4) Test specimen according to ISO 527-2 type 1BA, thickness 2 mm