



SABIC® HDPE B5210

HIGH DENSITY POLYETHYLENE

DESCRIPTION

SABIC® HDPE B5210 is a material with a specific molecular weight distribution, typically used for blow molding of light weight UN certified cans from 2 to 20 liters.

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 5 kg	0.35	dg/min	ISO 1133
at 190 °C and 21.6 kg	9	dg/min	ISO 1133
Density ⁽¹⁾	952	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ^{(1) (2)}			
Tensile test ^{(3) (4)}			
stress at yield	25	MPa	ISO 527-2
stress at break	37	MPa	ISO 527-2
strain at break	1000	%	ISO 527-2
tensile modulus	1000	MPa	ISO 527-2
Flexural test			
Flexural modulus	1150	MPa	ISO 178
Flexural strength	26	MPa	ISO 178
Izod impact notched			
at 23 °C	18	kJ/m ²	ISO 180/A
at -30 °C	15	kJ/m ²	ISO 180/A
Hardness Shore D	61	-	ISO 868
ESCR (Strain Hardening), Gp	23	MPa	ISO 18488
ESCR (10% Igepal CO-630), F50	200	h	ASTM D1693B
THERMAL PROPERTIES			
Heat deflection temperature ^{(1) (2)}			
at 0.45 MPa (HDT/B)	79	°C	ISO 75-2
Vicat Softening Temperature ^{(1) (2)}			
at 10 N (VST/A)	127	°C	ISO 306
DSC test			
melting point	132	°C	ISO 11357-3
enthalpy change	200	J/g	ISO 11357-3