+135-3858-6433 (GuangDong) +188-1699-6168 (ShangHai) +852-6957-5415 (HongKong)



## SABIC® VESTOLEN A BI5822

## HIGH DENSITY POLYETHYLENE

## **DESCRIPTION**

SABIC® Vestolen A BI5822 is a bimodal HDPE that combines high ESCR and stiffness with good impact resistance. It is typically used for blow molding of consumer packaging up to 5 I. This grade is typically used for packaging the majority of detergents, cleaners, shampoos and cosmetics.

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
THOI ENTED	THE VILLE	3,4113	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate			
at 190 °C and 5 kg	1	dg/min	ISO 1133
at 190 °C and 21.6 kg	22	dg/min	ISO 1133
Density <sup>(1)</sup>	958	kg/m³	ASTM D1505
MECHANICAL PROPERTIES			
Tensile test <sup>(2) (3)</sup>			
stress at yield	28	MPa	ISO 527-2
stress at break	34	MPa	ISO 527-2
strain at break	1000	%	ISO 527-2
tensile modulus	1250	MPa	ISO 527-2
Izod impact notched			
at 23 °C	10	kJ/m²	ISO 180/A
at -30 °C	7	kJ/m²	ISO 180/A
Hardness Shore D	63	-	ISO 868
ESCR (10% Igepal CO-630), F50	350	h	ASTM D1693B
THERMAL PROPERTIES			
Heat deflection temperature (4)			
at 0.45 MPa (HDT/B)	75	°C	ISO 75-2
Vicat Softening Temperature			
at 10 N (VST/A)	129	°C	ISO 306
DSC test			
melting point	135	°C	ISO 11357-3
enthalpy change	200	J/g	ISO 11357-3

<sup>(1)</sup> Compression moulding of test specimen according to ISO 1872-2

<sup>(2)</sup> Speed of testing: 50 mm/min

<sup>(3)</sup> Test specimen according to ISO 527-2 type 1BA, thickness 2 mm

<sup>(4)</sup> Conditioning of test specimen: temp. 23 °C, relative humidity 50 %, 24 hours