

SABIC® Vestolen A BI5822

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Vestolen A BI5822 is a bimodal HDPE that combines high ESCR and stiffness with good impact resistance. It is typically used for blow moulding of consumer packaging up to 5 l. 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.

General Information			
Features	Bimodal Molecular Weight Distribution		
	Good Impact Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Stiffness		
Uses	Cosmetic Packaging		
	Packaging		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	22	g/10 min	
190°C/5.0 kg	1.0	g/10 min	
Environmental Stress-Cracking Resistance (2.00 mm, 10% Igepal CO-630, Compression Molded, F50)	350	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1250	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	28.0	MPa	
Break, 2.00 mm, Compression Molded	34.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	7.0	kJ/m ²	

23°C, Compression Molded	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	75.0	°C	ISO 75-2/B
Vicat Softening Temperature	129	°C	ISO 306/A
Melting Temperature (DSC)	135	°C	ISO 11357-3
Enthalpy Change	200	J/g	ISO 11357-3

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