SABIC® Vestolen A BI5828

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Vestolen A BI5828 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/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	28	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Environmental Stress-Cracking Resistance (2.00 mm, 10% Igepal CO-630, Compression Molded, F50)	300	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)	1300	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	36.0	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/m²	

23°C, Compression Molded	10	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	79.0	°C	ISO 75-2/B
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature (DSC)	135	°C	ISO 11357-3
Enthalpy Change	200	J/g	ISO 11357-3

Recommended distributors for this material

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