

SABIC® Vestolen A 5017

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Vestolen A 5017 is a high-density polyethylene product. It can be processed by injection molding and is available in Europe. SABIC® Vestolen A 5017 applications include hats/caps/corks, containers and food contact applications.

Features include:

- high purity
- High resistance to environmental stress fracture (ESCR)
- Good processability
- anti-warping
- Good toughness

General Information			
Features	High purity		
	Low warpage		
	High ESCR (Stress Cracking Resistance)		
	Workability, good		
	Good toughness		
	Narrow molecular weight distribution		
Uses	Shield		
	Barrel		
	Shell		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	10	g/10 min	ISO 1133
190°C/5.0 kg	28	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	60		ISO 868
Ball Indentation Hardness (H 132/30)	49.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1050	MPa	ISO 527-2/1BA/1

Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	26.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	23.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	500	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	530	MPa	ISO 899-1
1000 hr	240	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	3.8	kJ/m ²	ISO 180/1A
23°C	4.0	kJ/m ²	ISO 180/1A
Tensile Impact Strength	36.0	kJ/m ²	ISO 8256/1B
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	80.0	°C	ISO 75-2/B
1.8 MPa, not annealed	47.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	128	°C	ISO 306/A50
--	72.0	°C	ISO 306/B50
Additional Information			

Strain at Break, ISO 527, Compression Molded, Type 1BA, 50mm/min, 2mm: >500%ESCR, SABIC Method, Determined in Rhodacal-DS10 at 60°C, 2 N/mm², thickness 3mm: 40hrTensile Impact Elongation at Break, ISO 8256, Type 1, Method B: 1.6%Tensile Impact Maximum Tension, ISO 8256, Type 1, Method B: 34 MPaMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 131°CEnthalpy Change, DIN 53765: 206J/g

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

