

SABIC® Vestolen A 6013

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Vestolen A 6013 is a high-density polyethylene product. It can be processed by extrusion, fiber (spinning) extrusion or injection molding, and is available in Europe. SABIC® The application fields of Vestolen A 6013 include textile/fiber, glue/gummed paper, hat/lid/bottle stopper, automobile industry and container.

Features include:

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

General Information			
Features	High purity		
	Low warpage		
	High ESCR (Stress Cracking Resistance)		
	High density		
	Workability, good		
	Narrow molecular weight distribution		
Uses	Strap		
	Cover		
	Container		
	Filament		
	Fiber		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Fiber (spinning) extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	2.0	g/10 min	ISO 1133
190°C/5.0 kg	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D, 15 sec, Compression Molded)	63		ISO 868
Ball Indentation Hardness (H 132/30)	55.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1280	MPa	ISO 527-2/1BA/1
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00mm, molded	27.0	MPa	ISO 527-2/1BA/50
Fracture, 2.00mm, molded	34.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	2000	%	ISO 527-2/1BA/50
Tensile Creep Modulus			ISO 899-1
1 hr	525	MPa	ISO 899-1
1000 hr	275	MPa	ISO 899-1
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	7.8	kJ/m ²	ISO 180/1A
23°C	12	kJ/m ²	ISO 180/1A
Tensile Impact Strength	49.0	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

ESCR, SABIC Method, Compression Molded, Determined in Rhodacal-DS10 at 75°C, 3 N/mm², thickness 1mm: 85hrTensile Impact Elongation at Break, ISO 8256, Type 1, Method B: 1.9%Tensile Impact Maximum Tension, ISO 8256, Type 1, Method B: 34 MPaMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 134°CEnthalpy Change, DIN 53765: 221J/g

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