

SABIC® Vestolen A 6012

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Vestolen A 6012 is a high-density polyethylene product. It can be processed by extrusion or fiber (spinning) extrusion and is available in Europe. SABIC® Vestolen A 6012 applications include textile/fiber, glue/gummed paper and food contact applications.

Features include:

high purity

Good processability

anti-warping

General Information			
Features	High purity		
	Low warpage		
	Workability, good		
	Narrow molecular weight distribution		
Uses	Strap		
	Filament		
	Fiber		
Agency Ratings	EEC 2002/72/EC		
	FDA 21 CFR 177.1520		
Appearance	Natural color		
Forms	Particle		
Processing Method	Extrusion		
	Fiber (spinning) extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.90	g/10 min	ISO 1133
190°C/5.0 kg	2.8	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 15 sec, Compression Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1200	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	40.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Break, 2.00 mm, Compression Molded)	2000	%	ISO 527-2/1BA/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	18	kJ/m ²	ISO 180/1A
23°C	27	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	79.0	°C	ISO 75-2/B
1.8 MPa, not annealed	45.0	°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: >2000%ESCR, SABIC Method, Compression Molded, Determined in Rhodacal-DS10 at 75°C, 3 N/mm², thickness 1mm: 100hrMelting Point, DIN 53765, Tmelt(top) at 5°C/min: 134°CEnthalpy Change, DIN 53765: 215J/g

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