

SABIC® Vestolen A 5061R 10000

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® Vestolen A 5061R 10000 (black) is a grade, which has a high density and a bimodal distribution of the molecular mass. An universal grade for pipe extrusion which, due to a keen combination of properties, is typically used for drinking water and waste water piping. This material meets (inter)national standards for use in drinking water and wastewater piping. MRS class ISO 12162 MPa = 8.0 (PE 80). This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Additive	Carbon Black (2%)		
Features	Bimodal Molecular Weight Distribution		
	High Density		
Uses	Piping		
Agency Ratings	ISO 12162 PE 80		
Appearance	Black		
Forms	Pellets		
Processing Method	Extrusion		
	Pipe Extrusion		

Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.10	g/10 min	
190°C/5.0 kg	0.36	g/10 min	

Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	59		ISO 868

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (2.00 mm, Compression Molded)	1000	MPa	ISO 527-2/1BA/50
Tensile Stress (Yield, 2.00 mm, Compression Molded)	23.0	MPa	ISO 527-2/1BA/50
Tensile Strain (Yield, 2.00 mm, Compression Molded)	9.0	%	ISO 527-2/1BA/50

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, Compression Molded	8.6	kJ/m²	
23°C, Compression Molded	23	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			

0.45 MPa, Unannealed	70.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	42.0	°C	ISO 75-2/A
Vicat Softening Temperature	70.0	°C	ISO 306/B
Melting Temperature (DSC)	123 to 127	°C	DIN 53765
Oxidation Induction Time - Compression Molded (210°C)	> 20	min	ISO 11357-6
MRS Classification	8.00	MPa	ISO 12162
RAL Number	9004		

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Recommended distributors for this material

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