

# SABIC® HDPE P6006 10000

High Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE P6006 10000 is black compounded high density polyethylene with a bimodal distribution of molecular mass. Due to its profile of properties, this material is typically used for gas and drinking water pipe. Other typical applications include irrigation and waste water pipes. MRS class ISO 12162 MPa = 10.0 (PE 100). This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	Bimodal Molecular Weight Distribution		
	High Density		
Uses	Irrigation Applications		
	Piping		
Appearance	Black		
Processing Method	Extrusion		
	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.23	g/10 min	ISO 1133
Carbon Black Content	2.3	%	ISO 6964
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)	900	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	13	kJ/m <sup>2</sup>	
23°C, Compression Molded	26	kJ/m <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	74.0	°C	ISO 306/B
Melting Temperature (DSC)	124 to 128	°C	DIN 53765
Oxidation Induction Time (210°C)	> 20	min	EN 728

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

