

SABIC® HDPE P6006

High Density Polyethylene

SABIC Americas, Inc.

Message:

P6006 is black compound high density (class MRS 10 - PE 100) Polyethylene with bimodal distribution of molecular mass. It is specifically designed for Pressure Pipe applications. It provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength. Pressure pipes for drinking water, irrigation, gas distribution and waste water pipes. It is also recommended for manufacture of chemical liners and containers.

General Information			
Features	Bimodal Molecular Weight Distribution		
	Food Contact Acceptable		
	High ESCR (Stress Crack Resist.)		
Uses	Containers		
	Irrigation Applications		
	Liners		
	Piping		
Appearance	Black		
Forms	Pellets		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	6.2	g/10 min	
190°C/5.0 kg	0.23	g/10 min	
Carbon Black Content	2.3	%	ISO 6964
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	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
-30°C	13	kJ/m ²	
23°C	26	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method

Vicat Softening Temperature	74.0	°C	ISO 306
Oxidation Induction Time (210°C)	> 20	min	EN 728
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	23°C		

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