

POLYMERS

SABIC[®] HDPE Black PIPE P5510

PRODUCT DESCRIPTION

P5510 is black compound high density (class MRS 8 - PE 80) 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.

TYPICAL APPLICATIONS

P5510 Pressure pipes for drinking water, irrigation, gas distribution and waste water pipes. It is also recommended for manufacture of chemical liners and containers.

TYPICAL DATA

PROPERTIES	Unit	Value ⁽¹⁾	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.43	ISO 1133
@ 190°C & 21.6 kg load		10.3	
Carbon Black content	%	2.25	ISO 6964
Density @ 23°C	Kg/m ³	956	ISO 1183
MECHANICAL PROPERTIES⁽²⁾			
Tensile Strength @ Yield ⁽³⁾	MPa	22	ISO 527-2
Tensile Elongation @ Yield ⁽³⁾	%	8	
Tensile Modulus ⁽³⁾	MPa	850	
Charpy Impact Notched			
@ 23°C	kJ/m ²	24	ISO 179
@ -30°C		8	
Hardness (Shore D)	-	59	ISO 868
THERMAL PROPERTIES			
Vicat Softening Point @ 50N (VST/B)	°C	70	ISO 306
OIT (210°C)	Min	> 20	EN 728

(1) Typical values: not to be construed as specification limits.

(2) Based on Compression molded sheet.

(3) Test specimen according to ISO 527-2 type 1 BA, thickness 2mm with 50mm/min test speed.

Processing Conditions:

Typical processing conditions for P5510

Melt temperature: 190-220°C

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

STORAGE AND HANDLING

Polyethylene material / compound should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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