

# SABIC® HDPE P952

## HIGH DENSITY POLYETHYLENE FOR PIPES

### DESCRIPTION

P952 is a natural high density polyethylene (HDPE) resin, specifically designed for non-pressure pipe extrusion application.

### TYPICAL APPLICATIONS

Non-Pressure pipe applications such as irrigation, cable conduits, corrugated & gravity pipe segments.

### TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>POLYMER PROPERTIES</b>			
Melt Flow Rate (MFR) <sup>(1)</sup>			
@ 190°C & 5 kg load <sup>(1)</sup>	0.33	g/10 min	ISO 1133
@ 190°C & 21.6 kg load	9	g/10 min	ISO 1133
Density at 23°C	952	kg/m <sup>3</sup>	ASTM D1505
<b>MECHANICAL PROPERTIES</b>			
Tensile Strength at Yield <sup>(2)</sup>	24	MPa	ASTM D638
Tensile Elongation at Yield	9	%	ISO 527-1/-2
Tensile modulus	1500	MPa	ASTM D638
Charpy Impact Notched @ 23°C	250	J/m	ASTM D6110
Hardness (Shore D) <sup>(3)</sup>	55	-	ASTM D2240
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	73	°C	ASTM D1525

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

(2) Test specimen according to ISO 527-2 type1 BA, thickness 2 mm with 50mm/min test speed

(3) Based on Compression molded sheet

### PROCESSING CONDITIONS

Typical processing conditions for P952 are: Melt temperature: 190 - 220°C