

## POLYMERS

# SABIC<sup>®</sup> HDPE PIPE P6006N

## PRODUCT DESCRIPTION

P6006N is a grade which has a high density (class MRS 10) and a bimodal distribution of the molecular mass. An universal grade for pipe extrusion which, due to a keen combination of properties. It can be used for telecommunication, corrugated and spiral pipes.

## TYPICAL APPLICATIONS

P6006N is a natural High Density Polyethylene (HDPE) resin specifically designed for Pipe Extrusion. It provides excellent stress crack resistance properties (ESCR) combined with very good long term hydrostatic strength.

## TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 5 kg load	g/10 min	0.23	ISO 1133
@ 190°C & 21.6 kg load		6.2	
Density @ 23°C	Kg/m <sup>3</sup>	949	ISO 1183
<b>MECHANICAL PROPERTIES <sup>(2)</sup></b>			
Tensile Strength @ Yield <sup>(3)</sup>	MPa	23	ISO 527-2
Tensile Elongation @ Yield <sup>(3)</sup>	%	10	
Tensile Modulus <sup>(3)</sup>	MPa	850	
Charpy Impact Notched at 23°C	kJ/m <sup>2</sup>	25	ISO 179
Flexural creep modulus (4 point, 1 min-value)	MPa	1050	DIN 19537-2
Hardness (Shore D)	-	64	ISO 868
<b>THERMAL PROPERTIES</b>			
Vicat Softening Temperature	°C	74	ISO 306
Brittleness Temperature	°C	<-80	ASTM D746-72
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.