



## Technical Datasheet: HDPE P6006

### Product Description:

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.

### Applications:

P6006 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:

Property	Test method	Unit	value
MFI @ 190°C & 5 kg load @ 190°C & 21.6 kg load	ISO 1133	gr/10 min <sup>3</sup>	0.23 6.2
Carbon Black content	ISO 6964	%	2.25
Density @ 23°C	ISO 1183	Kg/m <sup>3</sup>	959
Tensile Strength @ Yield(3)	ISO 527-2	MPa	23
Tensile Elongation @ Yield(3)		%	9
Tensile Modulus(3)		MPa	900
Charpy Impact Notched @ 23°C @ -30°C	ISO 179	kJ/m <sup>2</sup>	26 13
Hardness (Shore D)	ISO 868	-	63
Vicat Softening Point @ 50N (VST/B)	ISO 306	°C	74
OIT (210°C)	EN 728	Min	>20