

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.

TRPICAL APPLICATION

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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate ⁽¹⁾			
@ 190°C & 5 kg load ⁽¹⁾	0.23	g/10 min	ISO 1133
@ 190°C & 21.6 kg load ⁽¹⁾	6.2	g/10 min	ISO 1133
Carbon black content ⁽¹⁾	2.25	%	ISO 6964
Density @ 23°C ⁽¹⁾	959	kg/m ³	ISO 1183
MECHANICAL PROPERTIES ⁽³⁾			
Hardness (Shore D) ⁽²⁾	63	-	ISO 868
Tensile Strength @ Yield ⁽³⁾	23	MPa	ISO 527-2
Tensile Elongation @ Yield ⁽³⁾	9	%	ISO 527-2
Tensile Modulus ⁽³⁾	900	MPa	ISO 899
Charpy Impact Notched @ 23°C ⁽²⁾	26	kJ/m ²	ISO 179
Charpy Impact Notched @ -30°C ⁽²⁾	13	kJ/m ²	ISO 179
THERMAL PROPERTIES			
Vicat Softening Point @ 50N (VST/B)	74	°C	ISO 306
OIT (210°C)	>	min	EN 728