

Producer: KPIC / KOREA

## HDPE P600BL

### Description

YUHWA HİDEN P600 BL is a high density polyethylene produced by KPIC slurry process, and high performance material for pressure pipes especially potable water and gas distribution applications.

P600 BL exhibits an outstanding resistance to slow crack growth and to rapid crack propagation. And it is classified as a MRS 10 material (PE100) at 20 , 50 years, according to ISO/TR 9080 (now under evaluation of confirmation data).

P600 BL has a broad bimodal molecular weight distribution that ensures easy processing during extrusion. And it is particularly capable for extrusion of large diameter, thick wall pipes.

The main advantages of P600 BL compared with PE80 are as follows;

- Increased service pressure
- Reduced pipe wall thickness
- Increased hydraulic capability
- Improved mechanical properties
- Possibility to produce larger pipes



## Typical Data

PROPERTY	TEST	UNIT	TYPICAL VALUE
Melt index (5kg)	ASTM D 1238	g/10min	0.3
Density	ASTM D 1505	g/cm <sup>3</sup>	0.960
OIT (210 )	ASTM D 3895	min	40<
Water content	ASTM D 4019	ppm	300>
Tensile strength at yield	ASTM D 638	kgf/cm <sup>2</sup>	250
Tensile strength at break		kgf/cm <sup>2</sup>	350
Tensile elongation at break	ASTM D 638	%	600<
Flexural modulus	ASTM D 790	kgf/cm <sup>2</sup>	9,000
Izod impact strength (23 )	ASTM D 256	kgf.cm/cm	50<
ESCR	ASTM D 1693	hr	5,000<
Hydrostatic strength			
12.4MPa (20 )	ISO 921	hr	1,000<
5.5MPa (80 )		hr	1,000<
5.0MPa (80 )		hr	1,500<
Minimum required strength	ISO/TR 9080	MPa	10

Indicative values, not intended for specification purposes