

# HDPE 6100

YUZEX 6100 is high density polyethylene designed for pressurized pipe and produced by bi-modal operation in dual slurry reactor. It is classified as PE100 class. It has excellent processability in pipe extrusion and balanced physical properties.

## Application / Use Case

Pipe/ Pressure Pipe (gas pipe)

## Characteristic

PE100 Class, Processability

	Specification	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ASTM D1505
Melt Index (2.16kg/5kg)	0.052/0.26	g/10min	ASTM D1238

## Physical Properties

	Specification	Unit	Test Method
Tensile Strength at Yield	22.5	MPa	ASTM D638
Elongation at Break	> 700	%	ASTM D638
IZOD Impact Strength(Notched, 23°C)	NB	kg-cm/cm	ASTM D256
ESCR	> 8,760	hr	ASTM D1693
Brittleness Temperature	< -80	°C	ASTM D746
Flexural Modulus	830	MPa	ASTM D790
Rate of Absorption	< 0.03	%	ASTM D 570



Minimum Requirement Strength(MRS)	> 10.0	MPa	ISO/TR 9080
Notched Pipe Test (NPT)	> 165	hr	ISO 13479
Rapid Crack Propagation (RCP, S4)	> 2.5	bar	ISO 13477
VOCs	< 0.02	%	ASTM D3530
OIT (@ 210°C)	> 60	min	ASTM D3895

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These are typical properties only, and are not to be construed as specific limits.

