SK geo centric

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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

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

Physical Properties

	Nominal Value		Test Method
	(English)	(SI)	
Tensile Strength at Yield	3,410 psi	23.5 MPa	ASTM D638
Elongation at Break	>700 %	>700 %	ASTM D638
IZOD Impact Strength(Notched, 23°C)	>700 J/yd	>600 J/m	ASTM D256
ESCR	> 1 yr	> 1 yr	ASTM D1693
Brittleness Temperature	<-80 °C	<-80 °C	ASTM D746
Flexural Modulus	1.4×10^5 psi	930 MPa	ASTM D790
Rate of Absorption	<0.03 %	<0.03 %	ASTM D 570
Minium Requirement Strength(MRS)	>1,450 psi	>10.0 MPa	ISO/TR 9080

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ISO 9001 Certified

Notched Pipe Test (NPT)	>165 hr	>165 hr	ISO 13479
Rapid Crack Propagation (RCP, S4)	>36 psi	>2.5 bar	ISO 13477
VOCs	<0.02 %	<0.02 %	ASTM D3530
OIT (@ 210℃)	>60 min	>60 min	ASTM D3895

- **Notes:**

These are ***typical properties*** only, and are ***not to be construed as specifications***. The physical properties are highly dependent on the manufacturing conditions. Thus, customers should confirm performances by their own tests.

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