



HDPE Pipe Grade

YUHWA HIDEN<sup>®</sup> P600

**Description**

- Application : Pipe
- Characteristics : PE100, Excellent Creep Resistance, SCG, RCP, Color : Natural, Blue, Yellow
- Use Case : Gas Pipe, Potable Water Pipe

**Specification**

Item (term)	Value	Unit	Method
Melt Index	0.23 (5kg)	g/10min.	ASTM D1238
Density	0.95	g/cm <sup>3</sup>	ASTM D1505

**Physical Properties**

Item (term)	Value	Unit	Method
Mold Shrinkage (Linear)	1.5 - 2.5	%	KPIC Method
Water Absorption	<0.01	%	ASTM D570
Tensile Strength (Yield)	240	kg <sub>f</sub> /cm <sup>2</sup>	ASTM D638
Elongation (Break)	>600	%	ASTM D638
Flexural Modulus	9,000	kg <sub>f</sub> /cm <sup>2</sup>	ASTM D790
Hardness (Rockwell)	40	R Scale	ASTM D785
Impact Strength (Izod with notch)	>50	kg <sub>f</sub> cm/cm	ASTM D256
E.Stress Cracking Resistance	>5,000	hr.Cond.B.10%	ASTM D1693
Melting Point	133	°C	ASTM D3418
Softening Point (Vicat)	124	°C	ASTM D1525
Heat Deflection Temperature	65	°C	ASTM D648
Brittleness Temperature	<-70	°C	ASTM D746
Thermal Expansion (Linear)	1.5	10 <sup>-4</sup> cm/cm °C	ASTM D696
Specific Heat	0.45	cal/g°C	KPIC Method
Volume Resistivity	1	10 <sup>17</sup> ohm.cm	ASTM D257
Dielectric Constant (1KHz)	2.3		ASTM D150
Dissipation Factor (1KHz)	2	10 <sup>-4</sup>	ASTM D150
Dielectric Strength (Short Time)	48	KV/mm	ASTM D149

\* Above data are intended to serve as guides only, and are not sales specification limits.

**FDA**

YUHWA HIDEN<sup>®</sup> P600 complies with FDA regulations.

**Technical Servies**

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