



HDPE Pipe Grade

YUHWA HIDEN<sup>®</sup> P600 BL

## Description

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

## Specification

| Item (term) | Value      | Unit              | Method     |
|-------------|------------|-------------------|------------|
| Melt Index  | 0.23 (5kg) | g/10min.          | ASTM D1238 |
| Density     | 0.960      | 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                  | -         | %                                | ASTM D570   |
| Tensile Strength (Yield)          | 240       | kg <sub>f</sub> /cm <sup>2</sup> | ASTM D638   |
| Elongation (Break)                | >600      | %                                | ASTM D638   |
| Flexural Modulus                  | 9,500     | 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      | >5000     | hr, F50                          | 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)  | -         | KV/mm                            | ASTM D149   |
| Carbon Black Content              | 2.3       | %                                | ISO 6964    |

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

## FDA

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

## Technical Servies

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