# HIDEN® P600

High Density Polyethylene

YUHWA Korea Petrochemical Ind. Co., Ltd.

## Message:

HIDEN® P600 is a High Density Polyethylene material. It is available in Asia Pacific. Primary attribute of HIDEN® P600: Creep Resistant.
Typical applications include:
Plumbing/Piping/Potable Water
Food Contact Applications

| General Information | | | |
|---|---|---|---|
| Features | Good Creep Resistance | | |
| Uses | Piping | | |
| Agency Ratings | FDA Food Contact, Unspecified Rating<br>PPI PE-100 | | |
| Appearance | Natural Color | | |
| Forms | Pellets | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.950 | g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.21 | g/10 min | ASTM D1238 |
| Water Absorption (Equilibrium) | < 0.010 | % | ASTM D570 |
| Environmental Stress-Cracking Resistance [1] | > 5000 | hr | ASTM D1693B |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 40 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength (Yield) | 23.5 | MPa | ASTM D638 |
| Tensile Elongation (Break) | > 600 | % | ASTM D638 |
| Flexural Modulus | 883 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact | > 490 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 65.0 | °C | ASTM D648 |
| Brittleness Temperature | < -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 124 | °C | ASTM D1525 |
| Peak Melting Temperature | 133 | °C | ASTM D3418 |
| Oxidation Induction Time (200°C) | > 60 | min | ASTM D3895 |
| **NOTE** | | | |
| 1. | 10% | | |

## Recommended distributors for this material

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