

# HIDEN® P600

High Density Polyethylene

YUHW A 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 |                   |             |
|   | PPI PE-100                           |                   |             |
| Appearance  | Natural Color                        |                   |             |
| Forms   | Pellets                              |                   |             |
| Physical  | Nominal Value                        | Unit              | Test Method |
| Density   | 0.950                                | g/cm <sup>3</sup> | 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 <sup>1</sup>   | > 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%                                  |                   |             |

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