

# HIDEN® P601 KUBL

High Density Polyethylene

YUHWHA Korea Petrochemical Ind. Co., Ltd.

Message:

HIDEN® P601 KUBL is a High Density Polyethylene material. It is available in Asia Pacific.

Important attributes of HIDEN® P601 KUBL are:

Carbon Black

Good UV Resistance

Good Weather Resistance

Wear Resistant

Typical applications include:

Coating Applications

Food Contact Applications

Plumbing/Piping/Potable Water

| General Information                                   |                                      |                   |             |
|---|--------------------------------------|-------------------|-------------|
| Additive  | Carbon Black (2%)                    |                   |             |
| Features  | Good Abrasion Resistance             |                   |             |
|   | Good UV Resistance                   |                   |             |
|   | Good Weather Resistance              |                   |             |
| Uses  | Pipe Coatings                        |                   |             |
|   | Piping                               |                   |             |
| Agency Ratings  | FDA Food Contact, Unspecified Rating |                   |             |
| Forms   | Pellets                              |                   |             |
| Physical  | Nominal Value                        | Unit              | Test Method |
| Density   | 0.949                                | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)             | 0.30                                 | g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance <sup>1</sup> | > 5000                               | hr                | ASTM D1693B |
| Carbon Black Content                                  | 2.3                                  | %                 | ISO 6964    |
| Carbon Black Dispersion                               | < 3                                  |                   | ISO 18553   |
| Hardness  | Nominal Value                        | Unit              | Test Method |
| Durometer Hardness (Shore D)                          | 60                                   |                   | ASTM D2240  |
| Mechanical  | Nominal Value                        | Unit              | Test Method |
| Tensile Strength (Yield)                              | 19.6                                 | MPa               | ASTM D638   |
| Tensile Elongation (Break)                            | > 600                                | %                 | ASTM D638   |
| Flexural Modulus                                      | 735                                  | 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) | 58.0    | °C | ASTM D648  |
| Brittleness Temperature                                 | < -70.0 | °C | ASTM D746  |
| Vicat Softening Temperature                             | 121     | °C | ASTM D1525 |
| Peak Melting Temperature                                | 131     | °C | ASTM D3418 |

#### NOTE

1. 100%

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