

# EL-Lene™ H5604F

High Density Polyethylene

[SCG Chemicals Co., Ltd.](#)

## Product Description:

EL-LENE H5604F is a product of bi-modal process from Mitsui Chemicals, Inc. of Japan.

### General

|                   |  |
|-------------------|--|
| Availability      | <ul style="list-style-type: none"> <li>› Asia Pacific</li> <li>› North America</li> </ul>  |
| Features          | <ul style="list-style-type: none"> <li>› Food Contact Acceptable</li> <li>› High Stiffness</li> <li>› High Impact Resistance</li> <li>› Low Gel</li> </ul> |
| Uses              | <ul style="list-style-type: none"> <li>› Bags</li> <li>› General Purpose</li> <li>› Film</li> <li>› Heavy-duty Bags</li> </ul>                             |
| Agency Ratings    | <ul style="list-style-type: none"> <li>• FDA 21 CFR 177.1520</li> </ul>  |
| Forms             | <ul style="list-style-type: none"> <li>• Pellets</li> </ul>  |
| Processing Method | <ul style="list-style-type: none"> <li>• Blown Film</li> </ul>   |

| Physical   | Nominal Value Unit      | Test Method |
|--|-------------------------|-------------|
| Density  | 0.956 g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)  | 0.040 g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50) | > 1000 hr               | ASTM D1693B |

| Films                                    | Nominal Value Unit | Test Method |
|--|--------------------|-------------|
| Film Thickness - Recommended / Available | 10 to 25 μ         |             |

|                               |                           |                    |
|-------------------------------|---------------------------|--------------------|
| Secant Modulus                |                           | ASTM D882          |
| 2% Secant, MD : 12 $\mu$ m    | 804 MPa                   |                    |
| 2% Secant, TD : 12 $\mu$ m    | 785 MPa                   |                    |
| Tensile Strength              |                           | ASTM D882          |
| TD : Yield, 12 $\mu$ m        | 24.5 MPa                  |                    |
| MD : Break, 12 $\mu$ m        | 60.8 MPa                  |                    |
| TD : Break, 12 $\mu$ m        | 30.4 MPa                  |                    |
| Tensile Elongation            |                           | ASTM D882          |
| MD : Break, 12 $\mu$ m        | 240 %                     |                    |
| TD : Break, 12 $\mu$ m        | 450 %                     |                    |
| Dart Drop Impact (12 $\mu$ m) | 140 g                     | ASTM D1709         |
| Elmendorf Tear Strength       |                           | ASTM D1922         |
| MD : 12 $\mu$ m               | 3.0 g                     |                    |
| TD : 12 $\mu$ m               | 80 g                      |                    |
| <b>Thermal</b>                | <b>Nominal Value Unit</b> | <b>Test Method</b> |
| Brittleness Temperature       | < -60.0 °C                | ASTM D746          |
| Vicat Softening Temperature   | 124 °C                    | ASTM D1525         |
| Melting Temperature           | 131 °C                    | ASTM D2117         |
| <b>Extrusion</b>              | <b>Nominal Value Unit</b> |                    |
| Melt Temperature              | 190 to 210 °C             |                    |

**Notes**

These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.