Product Data Sheet

SUMITOMO POLYETHYLENE HDPE

F0554
High Density, Blown Film

Applications
For shopping and grocery bags, perforated rolls, trash bags, and industrial liners.

Characteristics
Bimodal blown film grade having high tensile and impact strength, good stiffness and barrier properties with a wide molecular weight distribution for easy processing. Performs well under heavy load conditions.

Typical Processing Conditions
Extrusion temperature: 180°C - 230°C
Blow-up ratio: 3 - 5

Typical Properties

<table>
<thead>
<tr>
<th>Physical</th>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melt Index</td>
<td>2.16kg</td>
<td>0.05</td>
<td>g/10min</td>
</tr>
<tr>
<td>Density</td>
<td>21.6kg</td>
<td>9.3</td>
<td>g/10min</td>
</tr>
<tr>
<td></td>
<td>0.951</td>
<td></td>
<td>g/cm³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Thermal</th>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vicat Softening Temperature</td>
<td>10N</td>
<td>126</td>
<td>°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Film</th>
<th>Value</th>
<th>Unit</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>w/o stab(1)</td>
<td>w/ stab(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength at Yield</td>
<td>MD / TD</td>
<td>35 / 30</td>
<td>35 / 30</td>
</tr>
<tr>
<td>Tensile Strength at Break</td>
<td>MD / TD</td>
<td>70 / 65</td>
<td>75 / 55</td>
</tr>
<tr>
<td>Tensile Elongation at Break</td>
<td>MD / TD</td>
<td>560 / 550</td>
<td>520 / 560</td>
</tr>
<tr>
<td>Tensile Modulus, 1% Secant</td>
<td>MD / TD</td>
<td>930 / 1030</td>
<td>990 / 1140</td>
</tr>
<tr>
<td>Elmendorf Tear Strength</td>
<td>MD / TD</td>
<td>17 / 39</td>
<td>11 / 78</td>
</tr>
<tr>
<td>Dart Drop Impact</td>
<td>325</td>
<td>245</td>
<td>g</td>
</tr>
</tbody>
</table>

The values shown are typical values measured on the product and are not to be considered as guaranteed specifications, actual test results may vary.

Test pieces preparation condition: as per ASTM D4976.
Blown film processing condition: extruder ø55mm, die ø220mm, die gap 1.35mm, temperature 200°C, output 50kg/hr, thickness 20μm.
neck height 840mm, (1) without stabilizer, (2) with stabilizer ø108mm at top of the blown bubble neck.
Manufacturer
F0554 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh). Petro Rabigh is an ISO 9001, ISO 14001, and OHSAS 18001 certified company.

Food Contact Application
Unmodified F0554 complies with the US FDA Regulation 21 CFR 177.1520 as well as with the EU Commission Regulation 10/2011, and their respective amendments, for use in direct contact with food. Please contact your nearest SCA representative for more information.

Restriction of Hazardous Substances
The substances regulated under EU Directive 2002/95/EC on RoHS in electrical and electronic equipment are not used in the manufacturing process of F0554 and are therefore not expected to be present.

Storage and Handling
F0554 is supplied in 25kg bags or in bulk containers depending on packaging options available for different markets. It is advisable to store in a well ventilated storage facility, protected from rain, direct exposure to sunlight, temperature, and dust. Moisture may accumulate inside the packaging if there is a significant fluctuation in ambient temperature and high relative humidity. If this occurs, customer is strongly advised to dry the resin prior to use. Direct exposure to sunlight and excessive ambient temperature may affect the properties, appearance, and odor characteristic of the resin. Please refer to the Safety Data Sheet (SDS) for information regarding industrial health and safety issues.

Disposal and the Environment
SCA prioritizes environmental management in all our operations in responsibility and respect towards the community and the environment. Unmodified F0554 is readily recyclable, both for reuse via reprocessing and for energy reclamation through incineration. If disposed in landfills, our products, which are inert materials, do not pose pollution risks since they do not generate gaseous or liquid emissions.

Office Locations

SUMITOMO CHEMICAL ASIA PTE LTD
150 Beach Road, #18-05/08 Gateway West, SINGAPORE 189720
Phone +65 6303 5188 Fax +65 6298 9621 Web Site www.sca.com.sg

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD.
Unit 46-07 Grand Gateway II, No.3 Hongqiao Road, Xu Hui District, Shanghai, CHINA 200030
Phone +86 21 6448 2255 Fax +86 21 6407 7365

SUMIKA PLASTICS AND CHEMICALS TRADING (SHANGHAI) CO., LTD., GUANGZHOU BRANCH
Room 6404, Office Building, CITIC Plaza, No.233, North Tianhe Road, Guangzhou City, CHINA 510613
Phone +86 20 3877 3577 Fax +86 20 3877 3511

SUMITOMO CHEMICAL ASIA PTE LTD
Vietnam Representative Office, 7th Floor, Unit 701-3, Me Linh Point Tower, 2 Ngo Duc Ke Street, Dist. 01, Ho Chi Minh City, VIETNAM
Phone +84 8 3520 2767 Fax +84 8 3520 2911

SCA SOUTH ASIA PETROCHEMICALS PRIVATE LIMITED
Unit Nos 703 & 704, 7th Floor, Aggarwal Corporate Towers, Plot No 23, District Centre, Rajendra Place, New Delhi 110008, INDIA
Phone +91 11 2575 1572 Fax +91 11 2575 1566

SUMITOMO CHEMICAL EUROPE S.A./N.V.
Woluweelaan, 57, B-1830 Machelen, BELGIUM
Phone +32 2 254 8799 Fax +32 2 251 2991 Web Site www.sumitomo-chem.be

SUMITOMO CHEMICAL EUROPE N.V.
Turkey Liaison Office, Fatih Sultan Mehmet Cad. Yayabeyi Sok. Ilayda Is Mrk, No.12/2, 34810 Kavacik, Beykoz - Istanbul - TURKEY
Phone +90 216 680 3334 Fax +90 216 680 1012

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