

Product Data Sheet

SUMITOMO POLYETHYLENE HDPE

B2555

High Density, Blow Moulding

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| Applications | For small to medium sized containers for household and industrial chemicals, toiletries and cosmetics tubes, automotive supplies, etc. |
| Characteristics | High rigidity, good flow ability, and stress crack resistance properties. |
| Typical Processing Conditions | Extrusion temperature : 160°C - 200°C Mould temperature : 15°C - 40°C |

Typical Properties

| Physical | | Value | Unit | Method |
|--------------------------------|-----------------|-------|-------------------|-------------|
| Melt Index | 2.16kg | 0.3 | g/10min | ASTM D1238 |
| | 5kg | 1.4 | g/10min | ASTM D1238 |
| Density | | 0.954 | g/cm ³ | ASTM D792-A |
| Mechanical | | Value | Unit | Method |
| Tensile Strength | at Yield | 27 | MPa | ASTM D638 |
| | at Break | 34 | MPa | ASTM D638 |
| Tensile Elongation | at Break | 740 | % | ASTM D638 |
| Flexural Modulus | | 1200 | MPa | ASTM D790 |
| Tensile Impact | | 200 | kJ/m ² | ASTM D1822 |
| Izod Impact, Notched | 23°C | 10 | kJ/m ² | ASTM D256 |
| | -30°C | 5 | kJ/m ² | ASTM D256 |
| Shore Hardness-D | | 68 | | ASTM D2240 |
| Thermal | | Value | Unit | Method |
| Vicat Softening Temperature | 10N | 127 | °C | ASTM D1525 |
| Other | | Value | Unit | Method |
| ESCR, Igepal 10 vol.% solution | F ₅₀ | 63 | h | ASTM D1693 |

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.

Manufacturer

B2555 is manufactured in Saudi Arabia by Rabigh Refining & Petrochemical Co. (Petro Rabigh).
Petro Rabigh is an ISO 9001, ISO 14001, and ISO 45001 certified company.

Regulatory Compliances

Unmodified B2555 complies with the requirements of,

- US FDA Regulation 21 CFR 177.1520 and its amendments
- Regulation (EC) 1935/2004/EC (Framework), EU Commission Regulation 10/2011 (PIM), Commission Regulation (EC) No.2023/2006 (GMP), and their respective amendments

Please contact your nearest SCE representative for more information.

Restriction of Hazardous Substances

The substances regulated under EU Directive 2011/65/EC, and its amendments, on RoHS in electrical and electronic equipment are not used in the manufacturing process, and are therefore not expected to be present in the product.

Storage and Handling

B2555 is supplied in 25kg bags or in bulk containers. 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 odour characteristic of the resin.

It is recommended to process B2555 within 6 months upon receipt.

Please refer to the Safety Data Sheet (SDS) for information regarding industrial health and safety issues.

Disposal and the Environment

SCE prioritises environmental management in all our operations in responsibility and respect towards the community and the environment.

Unmodified B2555 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.

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