

## Product Data Sheet - PROVISIONAL

SUMITOMO POLYETHYLENE HDPE

### **P0649**

High Density, Extrusion Pipe (Natural, Non-Pressure)

|                               |  |
|-------------------------------|--|
| Applications                  | For natural and coloured non-pressure pipe extrusion (e.g. irrigation, drainage, and sewage pipe, cable conduit and trunking), pipe and vessel lining, and moulded pipe fitting. |
| Characteristics               | Bimodal extrusion grade in natural-coloured pellet, with outstanding ESCR and high impact strength.  |
| Typical Processing Conditions | Extrusion temperature : 190°C - 220°C  |

### Typical Properties

| Physical                      |               | Value  | Unit              | Method        |
|-------------------------------|---------------|--------|-------------------|---------------|
| Melt Index                    | 5.0kg         | 0.22   | g/10min           | ISO 1133      |
|                               | 21.6kg        | 6      |                   |               |
| Density                       |               | 0.948  | g/cm <sup>3</sup> | ISO 1183      |
| Mechanical                    |               | Value  | Unit              | Method        |
| Tensile Stress                | at Yield      | 23     | MPa               | ISO 527       |
|                               | at Break      | 36     |                   |               |
| Tensile Elongation            | at Yield      | 10     | %                 | ISO 527       |
|                               | at Break      | > 1000 |                   |               |
| Tensile Modulus               | 23°C, 1mm/min | 850    | MPa               | ISO 527       |
| Flexural Creep Modulus        | 4 point, 1min | 1050   | MPa               | DIN 19537-2   |
| Impact Strength               | 23°C          | 25     | kJ/m <sup>2</sup> | ISO 179/1eA   |
| Shore Hardness-D              |               | 64     |                   | ISO 868       |
| Thermal                       |               | Value  | Unit              | Method        |
| Softening Temperature         |               | 74     | °C                | ISO 306       |
| Brittle Temperature           |               | < -80  | °C                | ASTM D4746-72 |
| Other                         |               | Value  | Unit              | Method        |
| ESCR in Full Notch Creep Test | 80°C          | 800    | h@4.0 MPa         | ISO CD 16770  |

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

**Manufacturer**

P0649 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**

Evaluation on common regulatory compliances on P0649 will be verified by accredited third party laboratories soon after commercial production.

Please contact your nearest SCA 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**

P0649 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 P0649 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**

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

Unmodified P0649 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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