

### Technical Data Sheet

## CAPILENE® SG 50

### Polypropylene Impact Copolymer



#### Product Description

**CAPILENE® SG 50** is a polypropylene heterophasic copolymer intended for injection molding.

#### Features:

- Good impact
- Basic additive packaging
- Good stiffness

#### Uses:

- Technical items
- Crates
- Toys
- Caps and closures
- Household articles

#### Processing Methods:

- Injection molding

| Properties                           | Method                   | Typical Value* | Unit              |
|--------------------------------------|--------------------------|----------------|-------------------|
| <b>Physical</b>                      |                          |                |                   |
| <b>Melt Flow Rate</b>                | (230°C/2.16 kg) ISO 1133 | 3.5            | g/10 min          |
| <b>Mechanical</b>                    |                          |                |                   |
| <b>Tensile Stress at Yield</b>       | (50 mm/min) ISO 527-2    | 24             | MPa               |
| <b>Tensile Strain at Yield</b>       | (50 mm/min) ISO 527-2    | 9              | %                 |
| <b>Flexural Modulus</b>              | (5 mm/min) ISO 178       | 1200           | MPa               |
| <b>Izod Impact Strength, notched</b> | (+23°C) ISO 180          | 14             | kJ/m <sup>2</sup> |
| <b>Izod Impact Strength, notched</b> | (-20°C) ISO 180          | 6              | kJ/m <sup>2</sup> |
| <b>Thermal</b>                       |                          |                |                   |
| <b>Vicat Softening Temperature</b>   | (10 N) ISO 306           | 150            | °C                |
| <b>Heat Deflection Temperature</b>   | (0.45 MPa) ISO 75-2      | 85             | °C                |

\*Typical values; not to be construed as specifications.

#### Health, Quality, Regulations and Safety

This product is not classified as dangerous substance and intended for industrial use, to produce plastic articles. Material safety data sheets, international standards certificates and other regulatory documents are available on our website. Carmel Olefins products have not been tested and therefore not validated for use in pharmaceutical/medical applications, and their suitability for these uses cannot be guaranteed. It is the customer's responsibility to test and approve their technical and regulatory suitability in order to satisfy themselves as to the particular purpose and application(s).

Carmel Olefins Ltd. POB 1468 Haifa 31014 Israel  
 Website: <http://www.Carmel-Olefins.co.il>  
 Email: [techserv@caol.co.il](mailto:techserv@caol.co.il)

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