

**Technical Data Sheet**

# **CAPILENE® QM 50 F** **Polypropylene Random Copolymer**


**Product Description**

**CAPILENE® QM 50 F** is a polypropylene random copolymer intended for cast film extrusion.

**Features:**

- No slip or antiblock additives
- Basic additive packaging
- Excellent transparency
- High gloss

**Uses:**

- High clarity films
- Lamination films
- Food packaging
- Injection molded items

**Processing Methods:**

- Cast film extrusion
- Injection molding

| Properties                           |                 | Method     | Typical Value* | Unit              |
|--------------------------------------|-----------------|------------|----------------|-------------------|
| <b>Physical</b>                      |                 |            |                |                   |
| <b>Melt Flow Rate</b>                | (230°C/2.16 kg) | ISO 1133   | 9.5            | g/10 min          |
| <b>Mechanical</b>                    |                 |            |                |                   |
| <b>Tensile Stress at Yield</b>       | (50 mm/min)     | ISO 527-2  | 23             | MPa               |
| <b>Tensile Strain at Yield</b>       | (50 mm/min)     | ISO 527-2  | 15             | %                 |
| <b>Flexural Modulus</b>              | (5 mm/min)      | ISO 178    | 900            | MPa               |
| <b>Izod Impact Strength, notched</b> | (+23°C)         | ISO 180    | 4              | kJ/m <sup>2</sup> |
| <b>Thermal</b>                       |                 |            |                |                   |
| <b>Vicat Softening Temperature</b>   | (10 N)          | ISO 306    | 132            | °C                |
| <b>Heat Deflection Temperature</b>   | (0.45 MPa)      | ISO 75-2   | 70             | °C                |
| <b>Optical</b>                       |                 |            |                |                   |
| <b>Haze</b>                          | (40 µm film)    | ASTM D1003 | 1.5            | %                 |

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

**Health, Quality, Regulations and Safety**

This product is not classified as dangerous substance. Material safety data sheets, international standards certificates (e.g. ISO 9001) 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).

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