

## Technical Data Sheet

# CAPILENE® CE 50 E

### Specialty Polypropylene



#### Product Description

**CAPILENE® CE 50 E** is a specialty soft polypropylene combining typical advantages of polypropylene random and heterophasic copolymers.

|                            |                                                                                                                                                                        |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Features:</b>           | <ul style="list-style-type: none"> <li>• Very low flexural modulus</li> <li>• Excellent impact at sub-zero temperature</li> <li>• Very low stress whitening</li> </ul> | <ul style="list-style-type: none"> <li>• High gloss</li> <li>• Excellent transparency</li> <li>• Basic additive package</li> </ul> |
| <b>Uses:</b>               | <ul style="list-style-type: none"> <li>• Impact modifier for clear PP sheets</li> <li>• High clarity films</li> </ul>                                                  | <ul style="list-style-type: none"> <li>• Corrugated sheets</li> <li>• Profiles</li> </ul>                                          |
| <b>Processing Methods:</b> | <ul style="list-style-type: none"> <li>• Injection molding</li> <li>• Compounding</li> </ul>                                                                           | <ul style="list-style-type: none"> <li>• Extrusion</li> <li>• Thermoforming</li> </ul>                                             |

| Properties                           |                   | Method     | Typical Value* | Unit              |
|--------------------------------------|-------------------|------------|----------------|-------------------|
| <b>Physical</b>                      |                   |            |                |                   |
| <b>Melt Flow Rate</b>                | (230°C/2.16 kg)   | ISO 1133   | 2              | g/10 min          |
| <b>Mechanical</b>                    |                   |            |                |                   |
| <b>Flexural Modulus</b>              | (5 mm/min)        | ISO 178    | 500            | MPa               |
| <b>Izod Impact Strength, notched</b> | (+23°C)           | ISO 180    | 45             | kJ/m <sup>2</sup> |
| <b>Izod Impact Strength, notched</b> | (-20°C)           | ISO 180    | 7.5            | kJ/m <sup>2</sup> |
| <b>Thermal</b>                       |                   |            |                |                   |
| <b>Vicat Softening Temperature</b>   | (10 N)            | ISO 306    | 126            | °C                |
| <b>Heat Deflection Temperature</b>   | (0.45 MPa)        | ISO 75-2   | 64             | °C                |
| <b>Optical</b>                       |                   |            |                |                   |
| <b>Haze</b>                          | (1 mm plaque)     | ASTM D1003 | 25             | %                 |
| <b>Haze**</b>                        | (50 µm film)      | ASTM D1003 | 0.8            | %                 |
| <b>Gloss**</b>                       | (45°, 50 µm film) | ASTM D2457 | 91             | %                 |

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

\*\* Measured on 50 µm cast film.

#### 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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