

**Product Description**

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

- Features:**
- Very low flexural modulus
  - Excellent impact at sub-zero temperature
  - Very low stress whitening
- High gloss
  - Excellent transparency
  - Basic additive package

- Uses:**
- Detergent and cosmetics clear containers
  - High clarity films
- Corrugated sheets
  - Profiles

- Processing Methods:**
- Injection molding
  - Compounding
- Cast film extrusion
  - Thermoforming

Properties		Method	Typical Value*	Unit
<b>Physical</b>				
<b>Melt Flow Rate</b>	(230°C/2.16 kg)	ISO 1133	6	g/10 min
<b>Mechanical</b>				
<b>Flexural Modulus</b>	(5 mm/min)	ISO 178	450	MPa
<b>Izod Impact Strength, notched</b>	(+23°C)	ISO 180	15	kJ/m <sup>2</sup>
<b>Izod Impact Strength, notched</b>	(-20°C)	ISO 180	6	kJ/m <sup>2</sup>
<b>Mechanical in Film**</b>				
<b>Tensile Stress at Yield</b>	(MD/TD)	ISO 527-3	15/15	MPa
<b>Tensile Strain at Yield</b>	(MD/TD)	ISO 527-3	13/15	%
<b>Tensile Stress at Break</b>	(MD/TD)	ISO 527-3	39/41	MPa
<b>Tensile Strain at Break</b>	(MD/TD)	ISO 527-3	470/1190	%
<b>Thermal</b>				
<b>Vicat Softening Temperature</b>	(10 N)	ISO 306	118	°C
<b>Heat Deflection Temperature</b>	(0.45 MPa)	ISO 75-2	60	°C
<b>Optical</b>				
<b>Haze</b>	(1 mm plaque)	ASTM D1003	35	%
<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.

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