

**Product Description**

**CAPILENE® CL 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>• Detergent and cosmetics clear containers</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>• Cast film 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	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.

## **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. This product is not intended for use in medical or pharmaceutical applications and we do not support its use for such applications.

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