

**Developmental grade Technical Data Sheet**

# CAPILENE® CL 50 E

## Specialty Polypropylene

**Description**

**Developmental grade CAPILENE® CL 50 E** is a specialty soft polypropylene combining the typical advantages of polypropylene random and heterophasic copolymers and contains basic stabilization package of additives.

**CAPILENE® CL 50 E** features: Low flexural modulus, easy processability, excellent mechanical and optical properties and excellent white stress resistance.

**Applications**

**CAPILENE® CL 50 E** is suitable for: Cast film, Compounding, Injection and Thermo-forming.

**Quality, Environment and Safety Regulations**

Material Safety Data Sheets and other regulatory documents are available on our web site <http://www.caol.co.il>

Properties	Method	Typical Value*	Unit
<b>Physical</b>			
Melt Flow Rate (230°C/2.16 kg)	ISO 1133	6	g/10 min
<b>Mechanical</b>			
Flexural Modulus (5 mm/min)	ISO 178	450	MPa
Izod Impact Strength, notched (+23°C)	ISO 180	15	kJ/m <sup>2</sup>
Izod Impact Strength, notched (-20°C)	ISO 180	6	kJ/m <sup>2</sup>
<b>Films</b>			
Tensile Stress	ISO 527-3/500		
MD: Yield, 50 µm, Cast film		15	MPa
TD: Yield, 50 µm, Cast film		15	MPa
MD: Break, 50 µm, Cast film		39	MPa
TD: Break, 50 µm, Cast film		41	MPa
Tensile Strain	ISO 527-3/500		
MD: Yield, 50 µm, Cast film		13	%
TD: Yield, 50 µm, Cast film		15	%
MD: Break, 50 µm, Cast film		470	%
TD: Break, 50 µm, Cast film		1190	%
<b>Hardness</b>			
Shore Hardness (Shore D)	ISO 868	58	



## Optical

Haze	(1 mm plaque)	ASTM D 1003	35	%
Haze	(50µm, Cast film)	ASTM D 1003	0.8	%
Gloss	(45°, 50µm, Cast film)	ASTM D 2457	91	

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