

Technical Data Sheet

CAPILENE® CL 50 E

Specialty Polypropylene


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
Physical				
Melt Flow Rate	(230°C/2.16 kg)	ISO 1133	6	g/10 min
Mechanical				
Flexural Modulus	(5 mm/min)	ISO 178	450	MPa
Izod Impact Strength, notched	(+23°C)	ISO 180	15	kJ/m ²
Izod Impact Strength, notched	(-20°C)	ISO 180	6	kJ/m ²
Mechanical in Film**				
Tensile Stress at Yield	(MD/TD)	ISO 527-3	15/15	MPa
Tensile Strain at Yield	(MD/TD)	ISO 527-3	13/15	%
Tensile Stress at Break	(MD/TD)	ISO 527-3	39/41	MPa
Tensile Strain at Break	(MD/TD)	ISO 527-3	470/1190	%
Thermal				
Vicat Softening Temperature	(10 N)	ISO 306	118	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	60	°C
Optical				
Haze	(1 mm plaque)	ASTM D1003	35	%
Haze**	(50 µm film)	ASTM D1003	0.8	%
Gloss**	(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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Date: January 2022

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