

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/m²
Izod Impact Strength, notched	(-20°C)	ISO 180	6 kJ/m²
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.

Carmel Olefins Ltd. POB 1468 Haifa 31014 Israel
 Website: <http://www.Carmel-Olefins.co.il>
 Email: techserv@caol.co.il

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 petromall.net

 info@petromall.ps

 +970 599 2020 64



Hebron - Palestine

فلسطين - الخليل

+972 2 2233840

