Technical Data Sheet

CAPILENE® CE 50 E

Specialty Polypropylene

CARMEL OLEFINS

Product Description

CAPILENE® CE 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:	• Impact modifier for clear PP sheets • High clarity films	• Corrugated sheets • Profiles
Processing Methods:	• Injection molding • Compounding	• Extrusion • Thermoforming

Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(230°C/2.16 kg)	ISO 1133	2	g/10 min
Mechanical				
Flexural Modulus	(5 mm/min)	ISO 178	500	MPa
Izod Impact Strength, notched	(+23°C)	ISO 180	45	kJ/m^2
Izod Impact Strength, notched	(-20°C)	ISO 180	7.5	kJ/m^2
Thermal				
Vicat Softening Temperature	(10 N)	ISO 306	126	°C
Heat Deflection Temperature	(0.45 MPa)	ISO 75-2	64	°C
Optical				
Haze	(1 mm plaque)	ASTM D1003	25	%
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.

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. Carmel Olefins products have not been tested and therefore not validated for use in pharmaceutical/medical applications, and their suitability for these uses cannot be guaranteed. It is the customer's responsibility to test and approve their technical and regulatory suitability in order to satisfy themselves as to the particular purpose and application(s).

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Date: January 2022