

# Capilene® CL 50 E

Polypropylene Random Copolymer

Carmel Olefins Ltd.

## Message:

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.

General Information			
Additive	Unspecified stabilizer		
Features	Copolymer		
	Stress whitening		
	Workability, good		
Uses	Composite		
	cast film		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Composite		
	cast film		
	Thermoforming		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	58		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus <sup>1</sup>	450	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: yield, 50 µm, cast film	15.0	MPa	ISO 527-3
TD: yield, 50 µm, cast film	15.0	MPa	ISO 527-3
MD: fracture, 50 µm, casting film	39.0	MPa	ISO 527-3
TD: fracture, 50 µm, casting film	41.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: yield, 50 µm, cast film	13	%	ISO 527-3
TD: yield, 50 µm, cast film	15	%	ISO 527-3
MD: fracture, 50 µm, casting film	470	%	ISO 527-3

TD: fracture, 50 µm, casting film	1200	%	ISO 527-3
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180
-20°C	6.0	kJ/m <sup>2</sup>	ISO 180
23°C	15	kJ/m <sup>2</sup>	ISO 180
NOTE			
1.	5.0 mm/min		

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