

Capilene® SE 50 E

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® SE 50 E is a low melt flow rate polypropylene heterophasic copolymer intended for extrusion applications.
CAPILENE ® SE 50 E features: excellent impact strength even at low temperature, good stiffness and excellent processability.
CAPILENE ® SE 50 E is suitable for: sheets, corrugated boards, profiles; injection molded technical items and blow molded containers.

General Information			
Features	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Impact Copolymer		
	Low Flow		
	Low Temperature Impact Resistance		
Uses	Blown Containers		
	Corrugated Sheet		
	Profiles		
	Sheet		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Injection Molding		
	Profile Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.3	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	24.0	MPa	ASTM D638
Yield	24.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	12	%	ASTM D638
Yield	12	%	ISO 527-2/50
Flexural Modulus			
--	1150	MPa	ASTM D790

-- ³	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C	60	J/m	ASTM D256
23°C	550	J/m	ASTM D256
-20°C	5.0	kJ/m ²	ISO 180
23°C	35	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	85.0	°C	ASTM D648
0.45 MPa, Unannealed	73.0	°C	ISO 75-2/B
Vicat Softening Temperature	150	°C	ISO 306/A, ASTM D1525 ⁴
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	Loading 1 (10 N)		

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