

Capilene® SG 50

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® SG 50 is a polypropylene heterophasic copolymer intended for injection molding.

CAPILENE ® SG 50 features: good stiffness combined with high impact strength.

CAPILENE ® SG 50 is suitable for: technical items, crates, toys, closures and household articles.

General Information			
Features	Good Stiffness		
	High Impact Resistance		
	Impact Copolymer		
Uses	Closures		
	Crates		
	Household Goods		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.5	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	27.0	MPa	ASTM D638
Yield	25.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	9.0	%	ASTM D638
Yield	9.0	%	ISO 527-2/50
Flexural Modulus			
--	1250	MPa	ASTM D790
-- ³	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C	65	J/m	ASTM D256
23°C	150	J/m	ASTM D256
-20°C	5.0	kJ/m ²	ISO 180
23°C	14	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, Unannealed	88.0	°C	ASTM D648
0.45 MPa, Unannealed	77.0	°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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