

Capilene® SR 50

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

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

CAPILENE ® SR 50 features: good balance of stiffness, impact strength and processability.

CAPILENE ® SR 50 is suitable for: packaging, household articles and technical items.

General Information			
Features	Good Impact Resistance		
	Good Processability		
	Good Stiffness		
	Impact Copolymer		
Uses	Household Goods		
	Packaging		
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)	12	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	23.0	MPa	ASTM D638
Yield	23.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	8.0	%	ASTM D638
Yield	9.0	%	ISO 527-2/50
Flexural Modulus			
--	1150	MPa	ASTM D790
-- ³	1150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C	50	J/m	ASTM D256
23°C	95	J/m	ASTM D256
-20°C	4.5	kJ/m ²	ISO 180
23°C	9.0	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	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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