

Capilene® R 50

Polypropylene Homopolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® R 50 is a polypropylene homopolymer intended for general purpose injection molding.

CAPILENE ® R 50 features: basic additive package.

CAPILENE ® R 50 is suitable for: household articles, crates and flowerpots.

General Information			
Additive	Unspecified Additive		
Features	General Purpose		
	Homopolymer		
Uses	Crates		
	General Purpose		
	Household Goods		
	Lawn and Garden Equipment		
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	34.0	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	11	%	ASTM D638
Yield	11	%	ISO 527-2/50
Flexural Modulus			
--	1550	MPa	ASTM D790
-- ³	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	30	J/m	ASTM D256
23°C	3.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	97.0	°C	ASTM D648

0.45 MPa, Unannealed	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	155	°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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