

Capilene® Y 50 V

Polypropylene Homopolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® Y 50 V is a controlled rheology polypropylene homopolymer intended for thin walled injection molding and compounding.

CAPILENE ® Y 50 V features: controlled rheology, ultra high flow, low warpage and good dimensional stability.

CAPILENE ® Y 50 V is suitable for: very thin walled packaging items, products with long flow length or complex design, household articles and toys; compounding applications.

General Information			
Features	Controlled Rheology		
	Good Dimensional Stability		
	High Flow		
	Homopolymer		
	Low Warpage		
Uses	Compounding		
	Household Goods		
	Thin-walled Packaging		
	Toys		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Compounding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	120	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	33.0	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	10	%	ASTM D638
Yield	10	%	ISO 527-2/50
Flexural Modulus			
--	1500	MPa	ASTM D790
-- ³	1450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	17	J/m	ASTM D256
23°C	2.0	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	85.0	°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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