

Capilene® TP 50 AV

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE® TP 50 AV is a very high flow polypropylene heterophasic copolymer intended for injection molding.

CAPILENE® TP 50 AV features: excellent impact strength, controlled rheology, very high flow, antistatic additive, excellent processability and low warpage.

Applications

CAPILENE® TP 50 AV is suitable for: thin walled items, products with long flow length or complex design.

General Information			
Additive	Antistatic property		
Features	Low warpage		
	Impact copolymer		
	Antistatic property		
	Impact resistance, high		
	Workability, good		
	High liquidity		
Uses	Thin wall parts		
Agency Ratings	EC 1907/2006 (REACH)		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	18.0	MPa	ASTM D638
Yield	18.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	7.0	%	ASTM D638
Yield	8.0	%	ISO 527-2/50
Flexural Modulus			
--	750	MPa	ASTM D790
-- ³	800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C	90	J/m	ASTM D256
23°C	450	J/m	ASTM D256
-20°C	8.0	kJ/m²	ISO 180
23°C	40	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, not annealed	60.0	°C	ASTM D648
0.45 MPa, not annealed	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	140	°C	ISO 306/A, ASTM D1525 ⁴
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	压力1 (10N)		

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