

Capilene® TG 50

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® TG 50 is a very high impact polypropylene heterophasic copolymer intended for injection molding.

CAPILENE ® TG 50 features: excellent impact strength even at low temperature, optimized balance of stiffness and toughness.

CAPILENE ® TG 50 is suitable for: technical items, closures, crates, boxes, luggage and toys.

General Information			
Features	Good Stiffness		
	Good Toughness		
	High Impact Resistance		
	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Closures		
	Containers		
	Crates		
	Luggage		
	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	22.0	MPa	ASTM D638
Yield	20.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	10	%	ASTM D638
Yield	10	%	ISO 527-2/50
Flexural Modulus			
--	975	MPa	ASTM D790
-- ³	1000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C	130	J/m	ASTM D256
23°C	700	J/m	ASTM D256

-20°C	8.0	kJ/m ²	ISO 180
23°C	45	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	80.0	°C	ASTM D648
0.45 MPa, Unannealed	70.0	°C	ISO 75-2/B
Vicat Softening Temperature	145	°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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