

Capilene® TR 50

Polypropylene Impact Copolymer

Carmel Olefins Ltd.

Message:

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

CAPILENE ® TR 50 features: excellent impact strength even at low temperature and good processability.

CAPILENE ® TR 50 is suitable for: technical items, closures, crates and boxes.

General Information			
Features	Good Processability		
	High Impact Resistance		
	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Closures		
	Containers		
	Crates		
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	19.0	MPa	ASTM D638
Yield	19.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	8.0	%	ASTM D638
Yield	8.0	%	ISO 527-2/50
Flexural Modulus			
--	850	MPa	ASTM D790
-- ³	850	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-20°C	100	J/m	ASTM D256
23°C	600	J/m	ASTM D256
-20°C	8.0	kJ/m ²	ISO 180
23°C	40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, Unannealed	70.0	°C	ASTM D648
0.45 MPa, Unannealed	67.0	°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.	Loading 1 (10 N)		

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