

Capilene® G 70 TF

Polypropylene Homopolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® G 70 TF is a nucleated polypropylene homopolymer intended for sheet extrusion and thermoforming applications.

CAPILENE ® G 70 TF features: nucleating additive, high stiffness, good transparency, high Heat Distortion Temperature (HDT); short injection cycle time.

CAPILENE ® G 70 TF is suitable for: extrusion-thermoforming of thin, stiff and transparent food containers, hot-filled containers; injection molding of technical items.

General Information			
Additive	Nucleating Agent		
Features	Fast Molding Cycle		
	High Heat Resistance		
	High Stiffness		
	Homopolymer		
	Medium Clarity		
	Nucleated		
Uses	Containers		
	Food Containers		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Injection Molding		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	38.0	MPa	ASTM D638
Yield	38.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	9.0	%	ASTM D638
Yield	9.0	%	ISO 527-2/50
Flexural Modulus			
--	2100	MPa	ASTM D790
-- ³	2000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	30	J/m	ASTM D256
23°C	4.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	122	°C	ASTM D648
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
Vicat Softening Temperature	159	°C	ISO 306/A, ASTM D1525 ⁴
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	30	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	Loading 1 (10 N)		

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