

Capilene® E 50 E

Polypropylene Homopolymer

Carmel Olefins Ltd.

Message:

CAPILENE® E 50 E is a low melt flow rate polypropylene homopolymer intended for extrusion, thermoforming and blow molding.
CAPILENE® E 50 E features: easy processability, good melt stability, good mechanical properties.
CAPILENE ® E 50 E is suitable for: in-line and off-line extrusion-thermoforming process for the production of cups and containers; extrusion of foils, sheets, strapping, slit film yarn, ropes and nets.

General Information			
Features	Good Processability		
	High Melt Stability		
	Homopolymer		
	Low Flow		
Uses	Containers		
	Cups		
	Netting		
	Rope		
	Sheet		
	Strapping		
	Yarn		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	31.0	MPa	ASTM D638
Yield	32.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	14	%	ASTM D638
Yield	12	%	ISO 527-2/50
Flexural Modulus			

--	1400	MPa	ASTM D790
-- ³	1400	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	40	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	94.0	°C	ASTM D648
0.45 MPa, Unannealed	82.0	°C	ISO 75-2/B
Vicat Softening Temperature			
--	152	°C	ASTM D1525 ⁴
--	155	°C	ISO 306/A
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	Loading 1 (10 N)		

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