

Capilene® W 77 AV

Polypropylene Homopolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® W 77 AV is a controlled rheology polypropylene homopolymer intended for injection molding.
CAPILENE ® W 77 AV features: controlled rheology, nucleating and antistatic additives, very high flow, high stiffness, low warpage and short molding cycle time.
CAPILENE ® W 77 AV is suitable for: thin walled packaging items, products with long flow length or complex design, household articles and toys.

General Information			
Additive	Antistatic		
	Nucleating Agent		
Features	Antistatic		
	Controlled Rheology		
	Fast Molding Cycle		
	High Flow		
	High Stiffness		
	Homopolymer		
	Low Warpage		
	Nucleated		
Uses	Household Goods		
	Thin-walled Packaging		
	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)	55	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	38.0	MPa	ASTM D638
Yield	36.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	9.0	%	ASTM D638
Yield	9.0	%	ISO 527-2/50
Flexural Modulus			
--	1800	MPa	ASTM D790

-- ³	1800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	20	J/m	ASTM D256
23°C	2.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	108	°C	ASTM D648
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
Vicat Softening Temperature			
--	153	°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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