

Capilene® QW 80 AV

Polypropylene Random Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® QW 80 AV is a controlled rheology polypropylene random copolymer intended for transparent thin wall articles and high speed injection molding.

CAPILENE ® QW 80 AV features: clarifier and antistatic additives, very high flow, controlled rheology, low warpage, good balance of stiffness and impact strength at ambient temperature, energy saving and short cycle time.

CAPILENE ® QW 80 AV is suitable for: thin walled packaging items, products with very long flow length, household articles and toys.

General Information			
Additive	Antistatic Clarifier		
Features	Antistatic Controlled Rheology Fast Molding Cycle Good Impact Resistance Good Stiffness High Flow Low Warpage Medium Clarity Random Copolymer		
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)	70	g/10 min	ASTM D1238, ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	25.0	MPa	ASTM D638
Yield	25.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	14	%	ASTM D638
Yield	14	%	ISO 527-2/50
Flexural Modulus			

--	1050	MPa	ASTM D790
-- ³	1050	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	45	J/m	ASTM D256
23°C	4.5	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.0	°C	ASTM D648, ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A, ASTM D1525 ⁴
Optical	Nominal Value	Unit	Test Method
Haze ⁵ (1000 μm)	10	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	5.0 mm/min		
4.	Loading 1 (10 N)		
5.	Plaque		

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