

Capilene® QB 79 P

Polypropylene Random Copolymer

Carmel Olefins Ltd.

Message:

CAPILENE ® QB 79 P is a high molecular weight, low melt flow rate polypropylene random copolymer, especially designed for extrusion of pressure pipes (PP-R) and injection molding of fittings.

CAPILENE ® QB 79 P features: easy processability, excellent mechanical properties, long term heat stabilization and good resistance to extraction by hot water and detergents.

CAPILENE ® QB 79 P is suitable for: in-house hot and cold water pipes and fittings, floor and wall heating systems, radiator connections and industrial applications.

General Information	
Additive	Heat Stabilizer
Features	Extraction Resistant
	Good Processability
	Heat Stabilized
	High Molecular Weight
	Low Flow
Uses	Random Copolymer
	Connectors
	Fittings
	Industrial Applications
	Piping
Agency Ratings	DIN 8078
	EC 1907/2006 (REACH)
	KTW Unspecified Rating Part 1.3.3: Polypropylene
	prEN 12202 2:1999
Forms	Pellets
Processing Method	Injection Molding
	Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR)			ASTM D1238, ISO 1133
190°C/5.0 kg	0.50	g/10 min	
230°C/2.16 kg	0.28	g/10 min	
230°C/5.0 kg	1.2	g/10 min	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	23.0	MPa	ASTM D638

Yield	23.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	13	%	ASTM D638
Yield	13	%	ISO 527-2/50
Flexural Modulus			
--	950	MPa	ASTM D790
-- ³	800	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-20°C	2.0	kJ/m ²	
0°C	3.5	kJ/m ²	
23°C	20	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179
0°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
0°C	85	J/m	
23°C	300	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	85.0	°C	ASTM D648
Vicat Softening Temperature	133	°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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