



## Technical Data Sheet

# CARMELTECH™ QB 79 P

## Polypropylene Random Copolymer for Pressure Pipe

### Description

CARMELTECH™ QB 79 P is a high molecular weight, low melt flow rate polypropylene random copolymer, especially designed for extrusion of pressure pipes and injection molding of fittings. This grade offers a combination of ease of processing and excellent mechanical properties. It has been formulated for long term heat stabilization and good resistance to extraction by hot water and detergents.

### Applications

CARMELTECH™ 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.

### Quality, Environment and Safety Regulations

Material Safety Data Sheets and Product Safety declarations are available on our web site <http://www.caol.co.il>

### Certificates

#### KTW Recommendations

Complies with the KTW Recommendations for contact with drinking water (Part 1.3.3: Polypropylene)

SKZ - Germany

Meets the requirements according to DIN 8078. Test certificate is available upon request.

Bodycote Polymer - Sweden

Fulfills the requirements according to prEN 12202-2:1999 (ISO/DIS 15874-2.2) at the temperatures 20, 95 and 110°C. The regression curves are available upon request.

WRC - UK

Both pipes and fittings made from this grade found to comply with the requirements of the Water Byelaws

Scheme for use in contact with hot and cold water. The report is available upon request.

DVGW æ Germany

Appears in the DVGW-/GKR- list of polypropylene grades recommended for drinking water installation pipes and fittings.



Properties		Method	Typical Value*	Unit
Physical				
Melt Flow Rate	(230°C/2.16Kg)	ISO 1133	0.28	g/10min
Melt Flow Rate	(230°C/5Kg)	ISO 1133	1.2	g/10min
Melt Flow Rate	(190°C/5Kg)	ISO 1133	0.5	g/10min
Mechanical				
Tensile Stress at Yield	(50mm/min)	ISO 527-2	23	MPa
Tensile Strain at Yield	(50mm/min)	ISO 527-2	13	%
Flexural Modulus	(5mm/min)	ISO 178	800	MPa
Charpy Impact Notched	(+23°C)	ISO 179	20	KJ/m <sup>2</sup>
Charpy Impact Notched	(0°C)	ISO 179	3.5	KJ/m <sup>2</sup>
Charpy Impact Notched	(-20°C)	ISO 179	2.0	KJ/m <sup>2</sup>
Charpy Impact Unnotched	(+23°C)	ISO 179	No Break	KJ/m <sup>2</sup>
Charpy Impact Unnotched	(0°C)	ISO 179	No Break	KJ/m <sup>2</sup>
Thermal				
Vicat Softening Temperature	(10N)	ISO 306	133	°C

\*Typical Values; not to be construed as specifications.