

Carmel Olefins CARMELTECH™ QB 79 P Polypropylene Random Copolymer for Pressure Pipe

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Carmel-Olefins-CARMELTECH-QB-79-P-Polypropylene-Random-Copolymer-for-Pressure-Pipe.php

Physical Properties	Metric	English	Comments
Melt Flow	0.28 g/10 min	0.28 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	0.50 g/10 min	0.50 g/10 min	
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	ASTM D1238
	1.2 g/10 min	1.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM D638
Elongation at Yield	13 %	13 %	ASTM D638
Flexural Modulus	0.950 GPa	138 ksi	ASTM D790
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	@Temperature >=0.000 °C	@Temperature >=32.0 °F	
	3.00 J/cm	5.62 ft-lb/in	ASTM D256
	@Temperature >=23.0 °C	@Temperature >=73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	85.0 °C	185 °F	ASTM D648

Thermal Properties	133 °C Metric	271 °F English	Comments
Heat Softening Point	@Load 1.02 kg	@Load 2.25 lb	ASTM D1525

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