

Hep₂O Technical Data

General Properties

Material	Polybutylene
Colour	Grey
Density	0.937 g/cm ³

Mechanical Properties

Tensile Strength at Yield	340 MPa
Modulus of Elasticity	2,700 MPa
Hardness (Shore)	D60

Thermal Properties

Coefficient of Expansion	1.3 x 10 ⁻⁴ cm/cm/°C
Thermal Conductivity	0.22 W/mK

Hydraulic Properties

Working Pressure	Class 16 (1,600 kPa) @ 20°C
Hazen-Williams Constant (C)	140
Pressure Wave Propagation Velocity	198 m/s

Dimensions

Pipe	15 mm	18 mm	22 mm	28 mm
Mean OD min	12.6	15.8	22.1	27.9
	max	12.8	16.0	22.3
Wall Thickness min	1.6	1.6	2.1	2.7
Mean ID	9.3	12.5	17.6	22.2
Litres of water/metre	0.068	0.123	0.243	0.387

Temperature Pressure Relationship

Temperature					
°C	20	40	60	80	90
°F	68	104	140	176	194
Pressure kPa	1,600	1,370	1,050	700	600
Bar	16.0	13.7	10.5	7.0	6.0
PSI	228	195	150	100	85

Temperature & pressure relationship is for operational purposes and not failure pressure, however where continuously circulating hot water is being used above 60°C we should be consulted.