

MERIDUR PVC-U PRESSURE PIPES – DATA SHEET

Applications

For water supply and industrial applications.

Characteristics

- Smooth internal surface preventing build up of deposits
- Good chemical resistance
- Good corrosion resistance
- Good abrasion resistance
- Very high rigidity
- Self extinguishing with a high ignition temperature
- Hazen Williams coefficient: C=150
- Easily joined with solvent cement sockets – no specialised equipment necessary
- A wide range of fittings and accessories available

Standards

Meridur PVC-U pressure pipes are manufactured according to Israeli Standard 71452 (EN ISO 1452).

Material

Specific gravity	1.4 g/cm ³
Tensile strength	50 N/mm ²
Modulus of elasticity	3000 N/mm ²
Thermal conductivity	0.15 W/m °C
Specific heat	0.23 kcal/kg °C
Coefficient of linear thermal expansion	0.08 mm/m °C

Specification

- Colour: Grey (RAL 7015)
- Length: Standard 5 meter lengths.
- Fittings: Solvent cement

	PN10		PN16		
Nominal Outside Diameter (mm)	Part No.	Min. Wall Thickness (mm)	Part No.	Min. Wall Thickness (mm)	Quantity per pack
20	-	-	2902017500	1.5	1250
25	-	-	2902517500	1.9	1000
32	2903215500	1.6	2903217500	2.4	380
40	2904015500	1.9	2904017500	3.0	240
50	2905015500	2.4	2905017500	3.7	240
63	2906315500	3.0	2906317500	4.7	170
75	2907515500	3.6	2907517500	5.6	120
90	2909015500	4.3	2909017500	6.7	75
110	2911015500	4.2	2911017500	6.6	74
140	2914015500	5.4	2914017500	8.3	44
160	2916015500	6.2	2916017500	9.5	35
200	2920015500	7.7	2920017500	11.9	20
225	2922515500	8.6	2922517500	13.4	15
250	2925015500	9.6	-	-	12
280	2928015500	10.7	-	-	10
315	2931515500	12.1	-	-	8

Design data

- **Head loss :** The Hazen Williams equation ($C = 150$) is used to calculate pipe head loss. This coefficient does not change for the lifetime of the pipe.
- **Flow rate :** When designing pipelines a flow rate of not more than 3 m/sec should be used for calculations.
- **Temperature derating factor :**

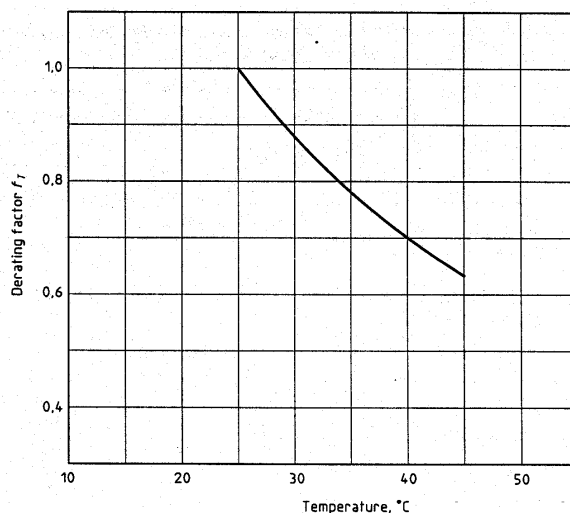


Figure 1 — Derating factor as a function of operating temperature

- **Working pressure in bar as a function of temperature:**
(Reference DIN 8061)

	Temperature °C	Series 4 PN10	Series 5 PN16
Water and harmless fluids to which rigid PVC is resistant	20	10	16
	40	6	10
	60	1	2.5
Harmful fluids to which rigid PVC is resistant	20	6	10
	40	2.5	4
	60	-	1
Fluids to which rigid PVC has limited resistance	20	4	10
	40	1	4