



Emtelle UK Ltd.
 Haughhead
 Hawick TD9 8LF
 United Kingdom

info@emtelle.com
 emtelle.com

Product Datasheet MHT 2813

PEM Ducts



General

PE 80 pressure pipe complying with DS/EN 12201 – approved for drinking water supply under pressure up to 10 bar.

Raw Materials

Material Only INSTA-CERT approved PE80 raw materials are used

INSTA-CERT approved raw materials comply with DS/EN 12201.

Dimensions

Size	SDR	Mean Outside Diam			I.D nom	Wall Thickness			Mass nom g/m
		Min	NOM	Max		Min	NOM	Max	
20-110 mm	11	Comply to DS/EN 12201 (See appendix)							

'SDR' is the standard dimension ratio (OD / wall).
 Lower SDR's indicate heavy duty sizes.

The pipes shall have dimensions (mm) as defined above, in addition other non-standard dimensions can be chosen,

The weight (mass) of the pipe shall be nominally calculated for 1m pipe

$$(OD - wt) \times wt \times \pi \times density$$

Where:

OD (outside diameter) and wt (wall thickness) is in mm, and density for PE100 is 0.96 g/cm³.

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Pipe Performance

Pipe ovality: Comply to EN 12201

Physical Properties:

Test	Standard	Result
Hydrostatic test 165 h	EN ISO 1167	OK
Elongation at Break	EN ISO 6259	>350%
Yield Stress	EN ISO 6259	>22MPa
Longitudinal reversion	EN ISO 2505	<3%
MFR (190°C/5kg)		
Deviation raw mat. To pipe: ≤ 20%	EN ISO 1133	OK
OIT ≥ 20 min	ISO 11357	OK

Installation tension recommendation:

SDR 11		
Ø [mm]	Max install tension [kN]	Max install tension [kg]
20	1,2	126,9
25	1,8	184,1
32	3,0	306,8
40	4,6	473,6
50	7,2	736,4
63	11,5	1.170
75	16,0	1.635
90	23,2	2.365
110	34,6	3.526

*Note that “,” separates for decimals and “.” separates for thousands

Exposure: The pipe shall be UV stabilised to withstand daylight exposure period of at least 12 months. Black pipes comply with EN 12201. However, for optimum performance, the pipe is best stored for no longer than 6 months if outdoors.

Marking: Standard number, manufactures name, dimensions, SDR series, intended use W, DK-VAND logo for W-intended use in DK, material and designation e.g. PE80, pressure rating in bar, manufactures information e.g. INSTA-CERT approval no.

Environmental considerations: Can be disposed to recycling.

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