



Technical data sheet

**GEROtherm®**

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KIT horizontal earth collectors tubes PE100-RC  
PN 16

## GEROthem® connecting tube PN16

Material	Polyethylene PE100-RC (Resistance to crack)
Tube design collectors tubes	<b>Connecting tube SDR11/S5/PN16</b> with smooth ends, black from the material PE100-RC in pipe diameters according to the price list.
Application	Horizontal connection of GEROthem® Geothermal probes to SAVE Collectors/Distributors
Delivery form	Coils in lengths of 125 m according to the price list.
Regulations	SIA 384/6; SKZ HR3.26 A278; KOMO®(K84660/02)
marking	{GEROthem} {Swiss made} {dn* <sup>1</sup> x en* <sup>2</sup> } {PE100-RC} {S5} {SDR11} {PN16} {Tmax 40°C} {DIN EN 12201} {EN ISO15494} {SKZ A278} {KOMO K84660} {Part No.} {Machine No.} {Date} {Production No.} {numbre of meters}
External monitoring	Süddeutsches Kunststoffzentrum (SKZ), Würzburg/Germany Kiwa Nederland B.V. (KOMO®)
<b>Physical properties</b>	
Density	0.95 – 0.97 g / cm <sup>3</sup>
Pipe roughness	0.03 mm
Minimum bending radius at 0°C	50 x dn* <sup>1</sup>
Minimum bending radius at 10°C	35 x dn* <sup>1</sup>
Minimum bending radius at 20°C	20 x dn* <sup>1</sup>
<b>Mechanical properties</b>	
Tensile modulus of elasticity (23°C, v = 1 mm/min, secant)	900 MPa
Yield stress (23°C, v = 50 mm/min)	23MPa
Tensile deformation (23°C, v = 50 mm/min)	9%
FNCT (4.0 MPa, 2% Arkopal N100, 80°C)	>/= 8760 h
Failure strain	>/= 350%
Mean thermal coefficient of linear thermal expansion	0.18 mm/m K
<b>Hardness</b>	
Shore hardness (Shore D (3 sec))	63
<b>Thermal properties</b>	
Maximum temperature	+ 40°C
Minimum temperature	- 20°C
Thermal conductivity	~0.4 W/mK
<b>Chemical properties</b>	
The HakaGerodur GEROthem® geothermal systems are resistant to the common heat transfer media. Refer to the Technical Manual for the suitable heat transfer media.	

\*1 dn = outside pipe diameter

\*2 en = pipe wall thickness