REHAU®

Unlimited Polymer Solutions

TECHNICAL INFORMATION

SYSTEM GUIDELINES, PIPING AND CONNECTION PLANNING AND ASSEMBLY

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Subject to technical modifications

Construction
Automotive
Industry

5.8 Technical data of pipes

A simultaneous load at the pressure and temperature limits during operation of drinking water and heating systems is not allowed (e.g. 95 °C at 10 bar in continuous working).

Technical data	Unit	Pipe	
		Universal pipe RAUTITAN stabil stabil	**Universal pipe RAUTITAN flex** flex
Material	–	PE-X/Al/PE	PE-Xa EVAL-sheathed
Colour (surface)	–	Silver	Silver
Notch impact strength at 20 °C	–	No fracture	No fracture
Notch impact strength at –20 °C	–	No fracture	No fracture
Average coefficient of expansion	[mm/(m·K)]	0.026	0.15
when laying with pipe support channel			
Size 16–40		–	0.04
Size 50 and 63		–	0.1
Thermal conductivity	[W/(m·K)]	0.43	0.35
Pipe roughness	[mm]	0.007	0.007
Operating pressure (maximum)	[bar]	10	10
Operating temperature	[°C]		
Maximum		95	90
Minimum		–	–
Short-term maximum temperature (malfunction)	[°C]	100	100
Oxygen diffusion (to DIN 4726)	–	Oxygen-tight	Oxygen-tight
Material constant C	–	33	12
Building material class acc. DIN 4102-1 Construction product class acc. DIN EN 13501-1	–	B2 E	B2 E
Maximum/Minimum laying temperature	[°C]	+50/–10	+50/–10
Minimum bending radius without tools d = Pipe diameter	–	5 x d	8 x d
Minimum bending radius with spiral spring/tool d = Pipe diameter	–	3 x d	–
Minimum bending radius with pipe bend brackets d = Pipe diameter	–	–	3–4 x d Plumbing 5 x d Plumbing/Heating
Available sizes	[mm]	16 – 40	16 – 63

Tab. 5-5 Technical data of pipes/approximate values