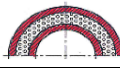
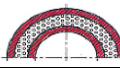
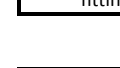











Technical data sheet for KG-PVC pipes and fittings

	Solid wall pipe	Multilayer pipe	Multilayer pipe	Solid wall fittings	
					
	 PVC SN 10 plus	 PVC SN 4 Coex	 PVC SN 8 Coex	 PVC Fittings	
Pipe specifications	DIN EN 1401-1  8 High load Solid wall 34 6 3 C	DIN EN 13476-2  4 Normal load Co-extruded 41 5 (≈ 2.5) (B)	DIN EN 13476-2  8 High load Co-extruded 34 6 3 (C)	DIN EN 1401-1  4 High load Solid wall 41 5 (≈ 2.5) (B)	
Properties	Ring stiffness iaw. DIN EN ISO 9969 [kN/m²] Ring stiffness iaw. DIN 16961 [kN/m ²] Material Content of mineral-based additives [%] Median density Color Short-term modulus of elasticity [N/mm ²] Long-term modulus of elasticity [N/mm ²] Coefficient of linear expansion [mm/m x K] Thermal conductivity in [W/K x m] Surface resistance in Ω Chemical resistance Recyclability Abrasion per 100,000 load cycles a _m ¹⁰⁰ Impact strength at 0°C Impact strength at -10°C	> 10 ≥ 63 PVC-U ≈ 20 ≈ 1.5 Orange-brown 3000 1500 ≈ 0.08 ≈ 0.16 > 10 ¹² ph 2-12 100% ++  ++	> 4 ≥ 31,5 PVC-U coex ≈ 20 ≈ 1.0 Orange-brown 3000 1500 ≈ 0.08 ≈ 0.16 > 10 ¹² ph 2-12 100% ≈ 0.17 +	> 8 ≥ 63 PVC-U coex ≈ 20 ≈ 1.0 Orange-brown 3000 1500 ≈ 0.08 ≈ 0.16 > 10 ¹² ph 2-12 100% ≈ 0.20 +	> 10 ≥ 63 PVC-U 0% ; max. 4 % ≈ 1.4 Orange-brown 3000 1500 ≈ 0.08 ≈ 0.16 > 10 ¹² ph 2-12 100% ++ +
Recommendation	Use below traffic surfaces Coverage heights [m] Wall surface roughness k (from KRV handbook) Operational roughness (from ATV 110) Waste water temperatures: Wastewater continuous load Water temperatures- continuous load [°C] short-term Tightness checks	SLW 60 compatible ≈ 0.5-8.0 < 0.1 mm 0.40 mm DIN EN 476 45 (≤ DN 400) 35 (> DN400) 60 0.5 bar water -0.3 bar air	SLW 60 compatible ≈ 1.0-3.0 < 0.1 mm 0.40 mm DIN EN 476 45 (≤ DN 400) 35 (> DN400) 60 0.5 bar water -0.3 bar air	SLW 60 compatible ≈ 0.5-8.0 < 0.1 mm 0.40 mm DIN EN 476 45 (≤ DN 400) 35 (> DN400) 60 0.5 bar water -0.3 bar air	
	Suitability for high-pressure rinsing Grades Volumetric flow speeds Hydraulic output Installation and testing	suited ATV A 110 ATV A 110 ATV A 110 DIN EN 1610	suited ATV A 110 ATV A 110 ATV A 110 DIN EN 1610	suited ATV A 110 ATV A 110 ATV A 110 DIN EN 1610	
Application	As inaccessible water main in the floor slab As water main in soil As lines for condensates from boiler plants As downpipes provided the max. wastewater temperature is < 45°C As collector pipes In groundwater area As below-ground pressure was wastewater and rainwater pipe (gravity fed drainage system)	yes yes yes yes yes yes yes	yes yes yes no no yes yes	yes yes yes yes yes yes yes	
Material characteristic v₂	From ATV A 127 Material Short-term modulus of elasticity [N/mm ²] Long-term modulus of elasticity [N/mm ²] Short-term bending strength [N/mm ²] Long-term bending strength [N/mm ²] Density Vibration bandwidth σ _A	From ATV A 127 PVC-U 3000 1500 90 50 13,5 9	From ATV A 127 PVC-U 3000 1500 90 50 10,0 9	From ATV A 127 PVC-U 3000 1500 90 50 13,5 9	
Fire behavior	low flammability Construction materials class iaw. DIN 4102-1 Fire behavior classification - DIN EN 13501-1	low flammability B1 E ; no burning droplets	low flammability B1 E ; no burning droplets	low flammability B1 E ; no burning droplets	