

Property	Value	Test Method
System Brand Name	Ultra Silent™	
Application	Soil and waste discharge systems (low and high temperatures) within the building structure (application area code "B") as well as buried in the ground (application area "BD"); construction of ventilation, rainwater and drainage systems inside the building structure (application area code "B")	
Pipe Material	Co-polymer PP for the external (black) and the internal (white) layers. Compound of PP and PP-MD for the middle (white) layer.	
Fitting Material	PP and PP-MD	
Connection	Push-fit sockets with elastomer rubber seals	
Seal Material	SBR-NR, NBR, EPDM	
Colour	Black	
Diameter	32-200 mm	
Density	Pipes: 1.3-1.4 g/cm ³ Fittings: 1.18-1.25 g/cm ³	
Elasticity Modulus	2.300 - 3.000 N/mm ²	ISO 178
Elongation	0,09 mm/m • C°	
Ring Stiffness	SN6> (6.0 kN/m ²)	ISO 9969
Halogen & Cadmium Content	Free of halogen or cadmium	
Chemical Resistance	Discharge media between pH 2 and pH 12	DIN 8078
Minimum Working Temperature	-25°C	
Waste Water Temp. (Max.)	+95° (continuous) +98° (discontinuous)	
Fire Resistance	D-s2, d2 B2	EN 13501-1 EN 4102-1
UV Resistance	Suitable for external installation when protected from exposure to direct sunlight (for instance, by means of special UV protective coating); can be stored outside up to two years	
Acoustic Performance	Lsc,A = 15 dB(A) at 2l/s, measured at ground level behind installation wall, with two Huliote acoustic clamps per floor	EN 14366
Construction Standard	HR 3.43, EN 14759, UNE EN 1451-1, IS 958	