

Material Properties Wavin Apollo PVC-O

Property	Value
Physical and mechanical	
Specific Gravity	1.42 g/cm ³
PVC resin minimum K value (ISO 1628-2)	K 65
Effect on potable water – AS/NZS 4020	Complies/accepted
Design Coefficient 'C'	1.6
Pipe class 'PN'	10 or 12.5
Material Class (SNI ISO 16422:2014)	355 or 450
Minimum Required Strength 'MRS' at 20°C extrapolated to 50 years representing the 97.5% lower predicted limit	35.5 or 45 MPa
Pipe series (refer ISO 3 - SNI ISO 16422:2014)	22.4
Standard Dimensional Ratio 'SDR' (refer ISO 3 - SNI ISO 16422:2014)	45.8
Hydrostatic Design Stress 'σ'	23 MPa
Modulus of Elasticity (2 years)	1700 MPa
Modulus of Elasticity (50 years)	1400 MPa
Poisson's ratio	0.45
Thermal	
Coefficient of Linear Expansion	70 x 10 ⁻⁶ / °C
Thermal Conduvity	0.138 W/m.K
Specific Heat	1045 J/kg.K
Maximum working temperature	50°C
Fire resistance (using data from tests on PVC-U of similar composition)	
Flammability	Not support combustion
Ignitability - AS 1530.3*	7
Smoke development – AS 1530.3*	9
Spread of flame – AS 1530.3*	0
Heat evolved – AS 1530.3*	2
*AWTA (Australian Wool Testing Authority) TEST REPORT 7-558803-CV	