

PVC PRESSURE SYSTEM

PVC-M



PDHRL16450

DN450 x 6m PN16 Purple Rhino Series 2 PVC-M Pipe Rieber RRJ

APPLICATION Used for above or below ground applications to convey recycled water in pressure applications.

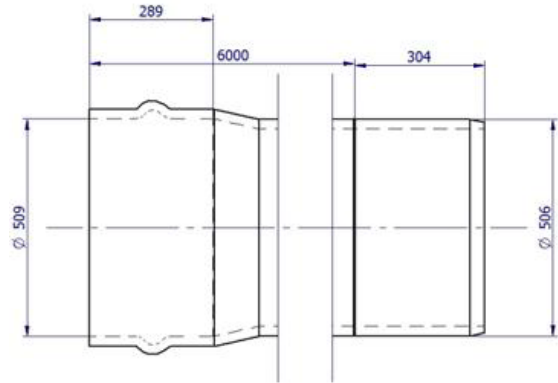
FEATURES

- Australian Made
- BEP PVC - Manufactured from Best Environmental Practice PVC
- Installation Economics
- Operation Efficiencies
- Corrosion Resistant
- Light weight
- Electrically non conductive

TECHNICAL DATA

PRODUCT PROPERTIES

| | |
|---|---------|
| Primary Material | PVC-M |
| Colour | Purple |
| Joint Type | RRJ |
| Rubber Ring Material | EPDM |
| Allowable Operation Temperature - Degrees | 50°C |
| Allowable Operating Pressure - 20°C | 1600kPa |
| Average # of Joints per Litre – Iplex Lubricant | 5 |
| Unprotected UV Exposure (years) | 2 Years |
| Maximum Diametric Deflection - 50 Years | 7.50% |
| Minimum Radius of Curvature | 135m |
| Socket Deflection | 1° |



PRODUCT DIMENSIONS

| | | | |
|----------------|---------|-----------------------|-------|
| Category | Length | Max Socket Nominal OD | 507mm |
| Rating | PN16 | Chamfer Detail | 36mm |
| Length | 6m | Witness Mark | 309mm |
| Nominal | 450mm | Weight | 310kg |
| ID | 460.2mm | Crate Qty | 2 |
| Wall Thickness | 23.4mm | Crate Weight | 620kg |
| Socket Depth | 289.2mm | | |

ENVIRONMENTAL CREDENTIALS AND STANDARDS

| | |
|---|--|
| Environmental Accreditation | Best Environmental PVC - PVC Certificate No. BEP-PVC 0037 |
| Product Standard | AS/NZS 4765 "Modified PVC (PVC-M) Pipes for Pressure Applications" |
| Standards Mark Certification SMK02730.4, SMK02468.4, SMK02748 | WSAA Appraisal - PA1612 |

MATERIAL PROPERTIES

MECHANICAL

| | |
|------------------------------|---------|
| Density Specific Gravity | 1.47 |
| Ultimate Tensile Strength | 38MPa |
| Yield Strain | 5.5% |
| Compressive Strength | 48MPa |
| Tensile Modulus | 3000MPa |
| Hardness Shore D | 85 |
| Poissons Ratio | 0.38 |
| Design Stress | 17.5MPa |
| Ring Bending Modulus (3mins) | 3000MPa |
| Ring Bending Modulus (50Yrs) | 1200MPa |

THERMAL

| | |
|----------------------------------|-------------------------------------|
| Coefficient of Thermal Expansion | $7 \times 10^{-5} / ^\circ\text{C}$ |
| Thermal Conductivity | 0.138W/m.K |
| Specific Heat | 1047 J/kg/°C |
| Vicat Softening Temperature | >79°C |
| Flammability | Will not support combustion |
| Fire Index – Ignitability | 2 |
| Fire Index – Smoke Development | 8 |
| Fire Index – Spread of Flame | 0 |
| Fire Index – Heat Evolved | 2 |

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