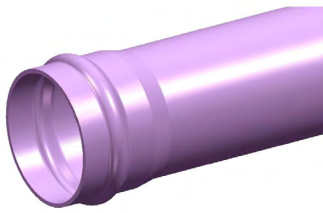


# PVC PRESSURE SYSTEM

PVC-M



**PDHRL12300**

**DN300 x 6m PN12 Purple Rhino Series 2 PVC-M Pipe Rieber RRJ**

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

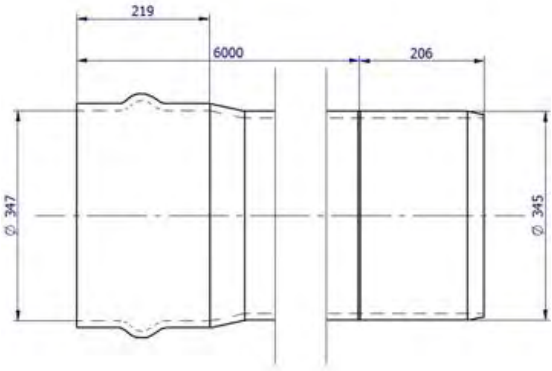
## FEATURES

- 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             | 1200KPa |
| Average # of Joints per Litre – Iplex Lubricant | 10      |
| Unprotected UV Exposure (years)                 | 2 Years |
| Maximum Diametric Deflection - 50 Years         | 7.50%   |
| Minimum Radius of Curvature                     | 90m     |
| Socket Deflection                               | 1°      |



### PRODUCT DIMENSIONS

|                |         |                       |         |
|----------------|---------|-----------------------|---------|
| Category       | Length  | Max Socket Nominal OD | 345.4mm |
| Rating         | PN12.5  | Chamfer Detail        | 30mm    |
| Length         | 6m      | Witness Mark          | 237mm   |
| Nominal        | 300mm   | Weight                | 114kg   |
| ID             | 321mm   | Crate Qty             | 6       |
| Wall Thickness | 12.2mm  | Crate Weight          | 684kg   |
| Socket Depth   | 219.2mm |                       |         |

## 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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