

WHY it WORKS

Hexagonal structure of the Polymer

The hexagonal crystalline structure of the PP-RCT pipe enables considerable mechanical resistance even at high temperatures

PP-R
Alfa - monocline
crystalline structure

Monoklin



PP-RCT

Beta - hexagonal
crystalline structure

Hexagonal



The crystalline structure of PP-RCT is much finer than that traditional PP-R

Featured Project



The Arton by Rockwell Land Corp.

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INCORPORATED

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WEXAN PP-RCT®

The Next Generation of PP-R Pipes

With over 15 years of consistent quality in the Philippines,
the manufacturers of **WEXAN PIPELINE**[®] brings you the
next generation of PP-R Pipes.

WEXAN PP-RCT[®]

- ✓ Higher Service Pressure
- ✓ Increased Flow Rate
- ✓ Higher Impact Strength
- ✓ Compatible with Standard Wexan PP-R Fittings
- ✓ Made with 100% German Krauss Maffei Extrusion Machines and European Borealis RA 7050 Resins

Designer and Consultants

*Thinner pipe walls. Higher volume flow rate.
Stronger operating pressure versus PP-R¹.*

Developers and Contractors

*Achieve material and installation cost savings
without compromising quality.*

Allowable Operating Pressure

Based on DIN 8077:2008-09

| | PP-R SDR 6 | PP-RCT SDR 9 |
|------|------------|--------------|
| 20°C | 25.7 | 19.3 |
| 30°C | 21.7 | 16.6 |
| 40°C | 18.3 | 14.2 |
| 50°C | 15.4 | 12.1 |
| 60°C | 12.9 | 10.2 |
| 70°C | 8.5 | 8.5 |

Based on 50 years Service Life, Safety Factor = 1.5
Pressure Values are in unit of Bars. 1 Bar = 14.5 psi

¹ Comparison of PP-R SDR 6 relative to PP-RCT SDR 6

² Comparison of Wexan PP-R SDR 6 relative to Wexan PP-RCT SDR 9



Same Outer Diameter.

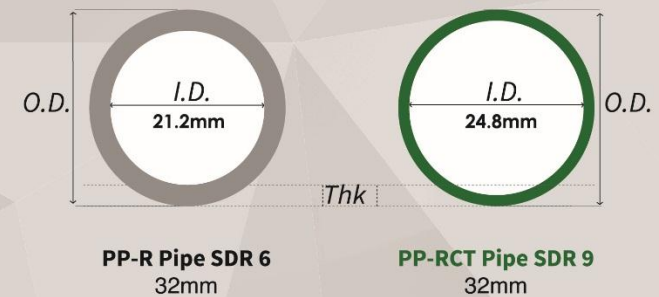
Larger Inner Diameter.

Higher **Volume Flow Rate**.

30% Cost Savings

With PP-RCT², maximize financial savings without sacrificing material quality

35% INCREASE IN VOLUME FLOW RATE OVER PP-R PIPES



Size Requirement Compliance

Based on DIN 8077:2008-09

| Nominal Inside Diameter Required |
|----------------------------------|
| 15.0mm (1/2") |
| 20.0mm (3/4") |
| 25.0mm (1") |
| 32.0mm (1 1/4") |
| 40.0mm (1 1/2") |
| 50.0mm (2") |

| PP-R SDR 6 | | |
|------------|------|------|
| O.D. | Thk | I.D. |
| 20.0 | 3.4 | 13.2 |
| 25.0 | 4.2 | 16.6 |
| 32.0 | 5.4 | 21.2 |
| 40.0 | 6.7 | 26.6 |
| 50.0 | 8.3 | 33.4 |
| 63.0 | 10.5 | 42.0 |

| PP-RCT SDR 9 | | |
|--------------|-----|------|
| O.D. | Thk | I.D. |
| 20.0 | 2.3 | 15.4 |
| 25.0 | 2.8 | 19.4 |
| 32.0 | 3.6 | 24.8 |
| 40.0 | 4.5 | 31.0 |
| 50.0 | 5.6 | 38.8 |
| 63.0 | 7.1 | 48.8 |