

PVC-O Pipe for the Conveyance of Pressurized Water Application



RUCIKA
EXOPLAS





Rucika EXOPLAS PVC-O Pipe is a result of years research, performed by PT. Wahana Duta Jaya Rucika to develop PVC material with Bi-axial orientation and based on PCV-U pipe characteristics tested.

PVC-O not only offers pipe material with better strength and toughness compared to PVC-U and Polyethylene (PE), but also improves pipe elasticity and performance. This material creates a tougher and lighter pipe. Rucika **EXOPLAS PVC-O** is specially developed for the distribution system of pressurized clean water.

PVC-O Technology

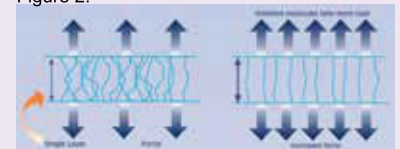
Rucika EXOPLAS is manufactured through a unique, patented production process. Rucika EXOPLAS PVC-O is the first pipe with successful in-line orientation in its production process, both in rotary and axial directions, it is conducted through a continuous process.

The orientation process is based on molecular stretch concept to produce a strong wall structure and also to improve the mechanical strength and toughness of the material (see Figure 1). The enhanced strength of PVC-O material is a direct prove of the fact that an oriented molecule can withstand more load (see Figure 2).

Figure 1.



Figure 2.



Quality Standard

Manufactured in accordance with ISO 16422: 2006, SNI ISO 16422: 2014 regarding Pipes and joints made of Oriented Unplasticized Poly (Vinyl Chloride) (PVC-O) for the Conveyance of water under pressure - Specifica-

Advantages and Benefits

► High Pressure Water Strength

Production process using in-line Bi-axial orientation produces almost 2 times strength of PVC-O material. Can be applied to pressure up to 12.5 bar with a thinner pipe compared to PVC-U and HDPE.

► High Impact Strength

Pipe durability is 3x higher than PVC-U.



► Higher Resistance Upon “Point Loading” Burden

The layered pipe wall structure of PVC-O provides better elasticity, so it is resistant to “point loading” burden or excavation condition which unintentionally causes Rucika EXOPLAS Pipe under goes several load points. Besides, no additional material needed for burial process.

► Pipe Flexibility Enhancement

Rucika EXOPLAS pipe is flexible, so it saves the need for bend 11° up to bend 22°.

► Lighter

Rucika EXOPLAS PVC-O is 2 times lighter than PVC-U dan HDPE pipes, and 7 times lighter compared to steel pipe.



► Lower Installation Cost

Reduce the installation cost because of the lightweight material and no need to use heavy equipment.



► Integrated Pipe Connections

Rubbering Angerlock™ system is used in the pipes jointing method, consists of 2 kinds of material, EPDM rubber and polypropylene. The system works as a mechanical joint and barrier of water output from the installation as well as locking system.



Product Application

1. Installation of Transmission of Public Clean Water Distribution (Government)
2. Local Water Companies
3. Installation of Clean Water Lines in Industries
4. Installation of Pressurized Clean Water Lines in Plantations, Irrigations, and Agricultures

Product Variant

RUCIKA EXOPLAS of PT. Wahana Duta Jaya Rucika vary from Ø90 to Ø500mm. Available nominal pressure values are PN 10, PN 12.5. The distinctive feature of **Rucika Exoplas** product is white appearance with pipe marking made of dot matrix printing on both sides, and socket at the end of the pipe.



PT. GOLDEN PIPING INDONESIA
Piping System Solution

Kawasan Multiguna Blok B1/5 Pakualam, Serpong Utara
Tangerang Selatan 15325 Banten - Indonesia
Telp. : +62 21 2292 7700, 2292 7788
Email : info@depopipa.com

 PT. Golden Piping Indonesia Official
 PT. Golden Piping Indonesia
 [goldenpipingindonesia](https://www.instagram.com/goldenpipingindonesia)
 www.goldenpiping.id
 www.depopipa.id