

PEXGOL[®]

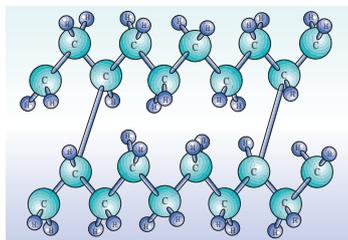
THE COST EFFECTIVE PIPE SYSTEM FOR THE CHEMICAL INDUSTRY

- Resistance to high temperatures and pressures
- Superb resistance to environmental stress cracking (ESCR)
- Exceptionally high abrasion resistance
- Resistance to temperature and pressure cycling
- High chemical resistance.

PEXGOL CROSS - LINKED P.E.

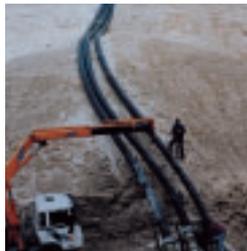
The unique PEXGOL pipe is produced from a special HMW-HDPE RESIN. The chemical cross-linking (PEX-a) is performed under high pressure and temperatures, resulting in an irreversible chemical link between adjacent P.E. chains.

The cross-linked P.E. is a thermo-elastic material with a 3-D molecular structure, having very high dimensional stability at high temperatures.



COMBINED LONGITUDINAL FLEXIBILITY AND RADIAL TOUGHNESS

PEXGOL pipes can be transported on drums in exceptionally long sections - 60 meters of 450 mm pipe, for example.



■ 120 meters continuous PEXGOL pipe
315 mm o.d. →

HIGH CHEMICAL RESISTANCE

Cross-linking enhances the chemical resistance of PEXGOL and boosts its resistance to environmental stress cracking.

See the chemical resistance charts for PEXGOL pipes.

EXCEPTIONALLY HIGH ABRASION RESISTANCE

The cross-linked, rubber-like structure of PEXGOL renders exceptional resistance to abrasive materials. In comparative tests carried out in gold mines in South Africa, PEXGOL pipes exhibited abrasion rates four times lower than steel pipes and two times lower than P.E. pipes.

MULTIPLE FITTING SYSTEM FOR PEXGOL PIPES

- Electrofusion Couplers.
- PLASSON compression fittings.
- "GOLAN" flanged couplings.
- Loose flange with flared ends.
- Plastic and stainless steel branch saddles.
- PEXGOL elbows.



■ PEXGOL elbows with flared ends at Rotem Fertilizers, Israel. ↑

RESISTANCE TO CORROSION AND PRESSURE AT HIGH TEMP.

Cross-linked P.E pipes are installed in process lines with service temperatures exceeding 110° C.



■ Process lines for temperatures of up to 110°C.
The Dead Sea Works, Israel →

PEXGOL PIPES - SCOPE OF APPLICATIONS

- Conveying of aggressive fluids (acids, solvents, etc.)
- Slurry pipe lines.
- Conveying of abrasive materials.
- Process lines.
- Sea outfall lines.
- Industrial wastes.
- Pneumatic conveying.
- Hot and cold water supply lines (district heating).
- Gas lines.
- Pumping of corrosive and salt water.



**GOLAN
PRODUCES
PEXGOL pipes in
diameters from
12 to 500 mm.**

PEXGOL PIPES MINIMIZE OPERATING COSTS

- A reliable pipe = **Minimum shut down time!**
- Reduced number of fittings = **Fewer weak points in the line!**
- Light and flexible pipe = **Quick and easy installation**
- Extremely smooth inner surface =
No sediment formations!
Low head losses!
Low energy consumption!
- Long-radius "natural bends" in the line = **More energy saving!**
- **No need for maintenance!**
- Extremely long and precisely predictable lifetime!
- PEXGOL pipes = **The cost effective pipe system!**

COMPARISON BETWEEN PEXGOL AND OTHER PIPES

QUALITY	PEXGOL	STEEL PIPES	RUBBER-LINED STEEL PIPES	PVDF PIPES
Resistance to corrosion	3	-	1	3
Resistance to high temperatures	1	3	2	2
Chemical resistance	2	-	2	3
Resistance to abrasion	3	1.5	2.5	1
Ease of installation	3	2	1	1
Reduced number of end connections	3	2	1	-
Cost Saving per Meter	2	3	1	1
Total	17	11.5	10.5	11

1 - Insufficient, 2 - Moderate, 3 - Excellent

Among our customers: Dead Sea Works, Periclase, Rotem Amfert Negev, Makhteshim Chemical Works (Haifa Chemicals), Carmel Olefins, Oil Refineries, ENUSA Nuclear Industries (Spain), South Africa Gold and Diamond Mines.



■ GOLAN PLASTIC PRODUCTS

Please contact our sales department for further information and technical assistance.



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GOLAN PLASTIC PRODUCTS

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