



HyperPure™

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COMING TOGETHER IS A BEGINNING
KEEPING TOGETHER IS PROGRESS
WORKING TOGETHER IS SUCCESS
—Henry Ford



1954 HDPE (HIGH DENSITY
POLYETHYLENE) TUBE FIRST TESTED



1965 ENGEL PATENT, PEXa



1967 PEXa PRODUCTION FOR
POTABLE WATER SYSTEMS

BIMODAL POLYETHYLENE – RAISED TEMPERATURE (PE-RT) TUBING

Bimodal Polyethylene, Raised Temperature (PE-RT) tubing is strong, flexible and pure. It is the first flexible plastic hot and cold potable water tube that is recyclable.

Bimodal technology produces a resin that has strength and flexibility due to its unique molecular structure. Early generations of polyethylene were not strong and resilient enough for U. S. plumbing systems. This is why cross-linking with chemical additives, steam baths, and/or radiation was necessary. Utilizing HYPERTHERM™ Resins from The Dow Chemical Company, the most advanced bimodal PE-RT resins today, Legend has manufactured a PE-RT tubing with more **strength** and as much **flexibility** as PEX without any cross-linking.

HyperPure™ tubing is stronger and tougher resulting in better burst and tensile properties and better slow crack growth resistance. HyperPure™ is certified Level 5 chlorine resistant indicating that the tubing will not be significantly degraded by chlorine and similar additives used in municipal water. This further ensures a long life for the plumbing system.

As a result, plumbing systems using HyperPure™ bimodal PE-RT will have a longer life than those using other polyethylene, CPVC, or copper piping.

HyperPure™ is flexible, lays flat and is easy to install. Fewer fittings can be used resulting in greater labor savings. It has all the advantages of PEX tubing in addition to being compatible with most fitting systems. The tubing can be used in traditional, home run and hybrid piping systems. Unlike PEX, it can be **fused** to create a continuous leak-proof plumbing system.

HyperPure™ is 100% recyclable, thereby reducing waste materials at the job site. This technologically advanced tubing provides plumbers with an environmentally friendly material for their potable water system that won't end up in a landfill.

HyperPure™ has all of these advantages and more:

- Resistance to corrosion and aggressive chemicals
- Strong, durable, flexible and lightweight
- Easy to install
- Leak-proof systems
- Lower labor requirements for installation
- Significant overall cost savings
- Long term service life
- Sustainable and environmentally responsible

HyperPure™ is made in the USA by American Legend Manufacturing™, a division of Legend Valve & Fitting, Inc.



HyperTherm™ is a registered trademark of The Dow Chemical Company.



THE BIGGEST INNOVATION IN OVER FIFTY YEARS

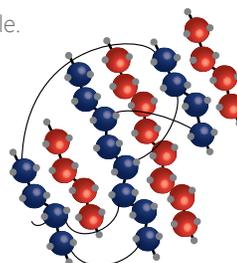
HYPERTHERM™ High Density Polyethylene (HDPE) Resins feature tie chains that connect the crystalline structure and increase chain entanglement for exceptional strength in the extruded PE-RT tubing. As a result, the pipe exceeds hot and cold potable water standards without cross-linking. Moreover, the tubing is flexible and pure because post-extrusion processes are not necessary.

This resin innovation produces tube that has the unprecedented benefit of being recyclable. HyperPure™ bimodal PE-RT tubing is the first and only recyclable hot and cold potable water tube option for architects, mechanical engineers, and plumbers in fast growing green building markets.

This innovation brings the future of plumbing to us now. HDPE piping's flexibility, resilience, ease of installation and fusibility has established it as the preferred product for natural gas distribution throughout the United States. HyperPure™ brings that technology to hot and cold potable water plumbing systems.

Unlike any other pipe or tube used for potable water systems, HyperPure™ is fusible. As fusion fittings become more readily available, HyperPure™ tubing can be used to build a single and continuous plumbing system by eliminating any joints that may cause potential leak paths.

Utilizing HYPERTHERM™ Resins from the Dow Chemical Company, Legend is manufacturing HyperPure™ tubing: strong, flexible, pure, and recyclable.



Strong

Better burst properties
Tough - better slow crack growth resistance
Longer life

Flexible

Works with any connection system –
"choose your fitting"
Installs easy – flexible, less fittings and less labor
Large diameter – residential, commercial,
and industrial

Pure

Green product – 100% recyclable
No cross-linking agent – tasteless and odorless –
no flushing required
Fusible – compatible with fusion welding systems



2009 CALIFORNIA APPROVES PEX



2012 DOW PATENTS HYPERTHERM™ 2399
ADDED TO IPC & UPC PLUMBING CODE



2015 LEGEND MANUFACTURES
PE-RT POTABLE WATER TUBING

OVERTAKES
US

CHOOSE YOUR FITTING

HyperPure™ bimodal PE-RT is compatible with most fitting systems commonly used in residential and commercial plumbing. In addition HyperPure™ can be fused.

HyperPure™ is compatible for use in plumbing systems utilizing ASTM F 1807 and 2159 PEX fittings with either copper rings or stainless steel clamps. It is also compatible with ASTM F 2080 cold expansion PEX fittings and ASSE 1061 push-fit fittings.

To learn more about Legend's potable water system, valves and fittings, call Legend Customer Service 800-752-2082 or visit www.legendvalve.com/pws.



CHOOSE YOUR TUBE

Size	20' Stick	100' Coil	300' Coil	500' Coil	1,000' Coil
1/4" Natural		500-14-100			
3/8" Natural		500-38-100		500-38-500	500-38-1000
1/2" Natural	500-12-20	500-12-100	500-12-300	500-12-500	500-12-1000
1/2" Blue	500-12-20B	500-12-100B	500-12-300B	500-12-500B	500-12-1000B
1/2" Red	500-12-20R	500-12-100R	500-12-300R	500-12-500R	500-12-1000R
3/4" Natural	500-34-20	500-34-100	500-34-300	500-34-500	500-34-1000
3/4" Blue	500-34-20B	500-34-100B	500-34-300B	500-34-500B	500-34-1000B
3/4" Red	500-34-20R	500-34-100R	500-34-300R	500-34-500R	500-34-1000R
1" Natural	500-10-20	500-10-100	500-10-300	500-10-500	
1" Blue	500-10-20B	500-10-100B	500-10-300B	500-10-500B	
1" Red	500-10-20R	500-10-100R	500-10-300R	500-10-500R	
1-1/4" Natural	500-114-20				
1-1/2" Natural	500-112-20				
2" Natural	500-20-20				

NOTE: All coils and sticks are marked from 0 feet to its total length in 5 foot increments.

HyperPure™



INNOVATION

Since our beginning, Legend has innovated through constantly improving our processes and technology for the sole purpose of creating customer astonishment. Legend's performance and service guarantees, from 24 hour shipping to industry leading fill rates, are all designed to help you succeed.

Now Legend innovates again with a potable water tube that utilizes the newest generation of patented polyethylene resin that will revolutionize plumbing as it has in Europe. Legend has invested in world-class extrusion equipment at our Michigan facility to manufacture HyperPure™ bimodal PE-RT tubing. Legend offers the most comprehensive product line for potable water systems in the industry. It includes HyperPure™ bimodal PE-RT tubing, valves, fittings, components, and accessories.

Everything you need behind the wall™. Legend products are backed by the Legend Guarantee, including the new HyperPure™ Legend 100 Year Warranty.

LEGEND 100 YEAR WARRANTY

Legend Valve & Fitting, Inc. warrants HyperPure™ Bimodal Polyethylene – Raised Temperature tubing for 100 years. For complete details, visit www.legendvalve.com/pws.



Made in the USA



300 N. Opdyke Road, Auburn Hills MI 48326

800-752-2082 | www.legendvalve.com

