

THERMOPLASTIC VS RUBBER



Thermoplastic high pressure hose has the same technical specifications as its rubber counterpart. However, thermoplastic hydraulic hose provides numerous benefits which allow it to outperform its rubber equivalent in certain applications. Below are some of the advantages of thermoplastic over rubber. Contact the ProPulse customer service team to see if switching to thermoplastic hydraulic hose can benefit you!

ABRASION RESISTANT MATTE COVER

ProPulse thermoplastic hose uses a unique, matte textured finish which aids in resistance to abrasion. The distinctive covering gives the impression of a rubber hose and removes the stigma of a “cheap”, shiny thermoplastic product. The polyurethane cover and overall lighter weight provide better abrasion resistance when compared to a wire-braided rubber hose.

UNLIMITED SHELF LIFE

Rubber never stops curing and UV exposure accelerates the curing process; therefore, rubber hose has a shelf life of only 6 years. Thermoplastic hose, however, is made with urethane, which is UV, ozone and abrasion resistant and has an unlimited shelf life.

HIGH IMPULSE LIFE

Our thermoplastic hose has been impulse tested per SAE protocol to meet 1 million impulses or over.

NO PINHOLES

Many rubber hose manufacturers reuse materials and produce hose using a mandrel. Both of these practices can greatly contribute to contamination, which is the primary cause of pinholes in hydraulic hoses. ProPulse thermoplastic hose is made with 100% virgin material (no regrind) and is produced without a mandrel.

20% LIGHTER THAN RUBBER HOSE

Depending on the length, thermoplastic hose can offer +/- 20% decrease in weight compared to rubber.

UV, OZONE AND CHEMICAL RESISTANCE

Thermoplastic hose utilizes a polyurethane cover which offers excellent resistance to chemicals, as well as UV and ozone resistance, in comparison to rubber. This is a huge advantage as hydraulic hose is often exposed to sunlight. Rubber hose can crack over time, exposing the wire braid and eventually leading to premature failure. With a thermoplastic hose, there is no cracking due to the resilience of the cover.

MADE IN THE USA

ProPulse thermoplastic hose is manufactured at our facility in Peosta, Iowa. By manufacturing in the U.S.A., our lead times are greatly reduced, allowing us to react quickly to increase or change in customer requirements. Rubber hose, especially in today's supply chain, has lengthy lead times and large demand. Our thermoplastic hydraulic hose provides a better alternative, more quickly.

For more info, visit:

www.powermovingforward.com