

Why Thermoplastics? Reducing weight optimizes payload

Parker Parflex reinforced thermoplastic hose can reduce weight by up to 70% when compared to steel tubing or traditional wire-reinforced rubber hose. By reducing the overall weight of the fluid conveyance system, critical payload weight can be optimized.

On a recent military application, Parflex thermoplastic hose reduced weight by 27.5 pounds. (39% reduction)

- **Light weight**
30% - 70% weight reduction
- **Abrasion resistant**
Tough, outer jacket
- **Compact O.D.**
10% - 30% reduction for easier routing
Lower force to flex
- **Clean core tube**
- **Resistant to pin hole leaks**
- **Resistant to erosion**
- **Low length change under pressure**
- **Noise reduction**
- **Low permeation**
- **Wide chemical compatibility**
- **Long lengths**
Up to 10,000 feet
- **Coiled hoses**
- **Bonded hoses**
Reduce tangling and abrasion, up to 11 lines
- **Formed hoses**



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Parflex “EXTREME” Light Weight Hose



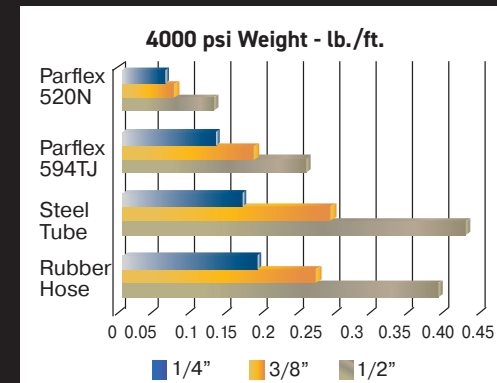
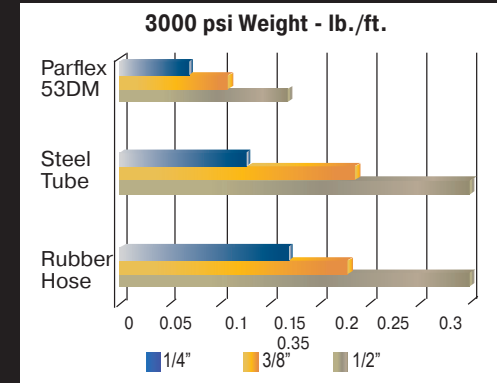
ENGINEERING YOUR SUCCESS.

Parflex "EXTREME" Light Weight Hose

Our newest hoses, the TOUGHJACKET™ product line, combine light weight, small O.D., long continuous lengths, low length change under pressure and 650x the abrasion resistance of standard rubber hose to create one of the most durable hoses available for rugged terrain.



Hose	Specification	Pressure	Core Tube	Temperature Range
563TJ - Up to 42% lighter than comparables; 650x abrasion resistance of standard rubber hose	SAE 100R17	Constant 3,000 psi	Copolyester	<ul style="list-style-type: none"> Petroleum based hydraulic fluids and lubricating oils within a temperature range -40°F (-40°C) to 250°F (121°C) Synthetic, synthetic blend, water, and water/oil emulsion hydraulic fluids limited to 185°F (85°C) Water/glycol hydraulic fluids limited to 135°F (57°C)
Lowest length change under pressure				
594TJ - Two wire strength, one wire construction; 650x abrasion resistance of standard rubber hose	SAE 100R19	Constant 4,000 psi	Copolyester	
Long continuous lengths				
53DM - Low coefficient of friction cover; Superior flexibility in cold temperatures	SAE 100R18	Constant 3,000 psi	Copolyester	
Smaller O.D.'s than 100R7 and 100R18				
520N - Fast Response; Lighter and smaller O.D. than 100R2 hose;	SAE 100R8 MSHA	3,500 to 5,000 psi	Nylon	-40°F (-40°C) to +212°F (100°C)
Twinline and multi-line available				
575X - Fast response even over longer length				
Low length change under pressure; Low volumetric expansion	MSHA	Constant 5,000 psi	Nylon	



Reduce weight without compromising performance

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