

# ARMORHOSE™



## TRANSFORMING THE FUTURE OF ABRASION RESISTANCE

A cost competitive, integrated hose construction solution that incorporates an abrasion resistant outer layer which eliminates the need for protective sleeves used in many current application designs

## ARMORHOSE™ IN FLUID TRANSFER SYSTEMS

### FEATURES

- Integrated Protection Design
- 100% Abrasion Resistance Coverage
- Elimination of all Abrasion Sleeves
- Ease of Integration and Assembly
- Excellent Chemical Resistance

### TARGET APPLICATIONS

- Sulfur Cured (135°C Continuous, 150°C Excursion)
- Peroxide Cured (150°C Continuous, 175°C Excursion)
- Coolant Hoses (Heater/ Radiator)
- Transmission Oil Cooling Hoses
- Vacuum Brake
- Degas Hoses

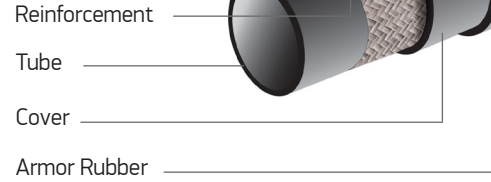


**“THE ABILITY TO BUILD IN 100% ABRASION COVERAGE AND ELIMINATE ALL ASSOCIATED ENGINEERING CHANGE COSTS WITHOUT COMPROMISING PACKAGING SPACE OR ASSEMBLY OPERATIONS.”**

# The Technology

## HARNESSING MATERIAL INNOVATION

Cost Competitive, Easily Adopted  
 Integrated Solution  
 Eliminates Sleeve Complexity  
 Predictable Design, Quality and Performance



## GAME-CHANGING PERFORMANCE



## MATERIAL PROPERTIES COMPARISON

Test	Property	Standard EPDM	ArmorHose™ I
Orig. Tensile	Durometer SHA	71	77
	Peak Stress (MPa)	10.5	9.6
	Elongation %	491	271
	100 % Modulus (MPa)	3.3	5.8
168h/150C Heat Age	Change in Durometer	+15	+10
	% Change in Peak Stress	22.9	38.5
	% Change in Elongation	-63.6	-52.8
Fluid - 168 Boil (45/55 Prestone/H2O)	Change in Durometer	-3	-1
	% Change in Peak Stress	-7.0	-0.2
	% Change in Elongation	-16.2	-28.0
Plied C/S	168h/140C (%)	83.6	79.1
Button C/S	168h/140C (%)	73.8	76.2

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