

EXPANDABLE SLEEVING

FLEX-TUFF™



Flex-Tuff™

PRODUCT HIGHLIGHTS



Operating Temperature
-70°C to 150°C



Abrasion Resistance



RoHS/REACH Compliant



UL File #E118600

Atkins & Pearce's Flex-Tuff™ is a heavy-duty expandable sleeving constructed from nylon monofilaments. Its open weave construction allows for complete drainage, prevents condensations, and provides dissipation of heat and moisture. Flex-Tuff™ has excellent resistance to hydrocarbons, common automotive oils and fuels, aromatic solvents, and refrigerants.

Flex-Tuff™ is rated to 150°C and is ideal for use in industrial hoses, harnesses, and cable assemblies that are exposed to excessive abrasion applications.

Below is a complete list of Atkins & Pearce's Flex-Tuff™ parts. For more information or to discuss the use of Flex-Tuff™ in your specific application, please contact our technical sales department by phone or email.

SIZE	EXPANSION RATIO
3/8 INCH	1/4 INCH -- 1/2 INCH
1/2 INCH	3/8 INCH -- 5/8 INCH
3/4 INCH	5/8 INCH -- 1 INCH
1 INCH	7/8 INCH -- 1-1/4 INCH
1-1/4 INCH	1 INCH -- 1-1/2 INCH
1-1/2 INCH	1-1/4 INCH -- 1-3/4 INCH
1-3/4 INCH	1-1/2 INCH -- 2 INCH
2 INCH	1-3/4 INCH -- 2-1/2 INCH
3 INCH	2-1/4 INCH -- 3-1/2 INCH
3-1/2 INCH	2-3/4 INCH -- 4-1/4 INCH

Atkins & Pearce

FLEX-TUFF™

Performance Metrics

PROPERTY	TEST	RESULT
MONOFILAMENT DIAMETER	ASTM D-204	0.019 IN. X 0.060 IN. NYLON MONOFILAMENT
TENSILE STRENGTH	ASTM D-2256	19 LBS
SPECIFIC GRAVITY	ASTM D-792	1.12
MOISTURE ABSORPTION	ASTM D-570	2.50%
ABRASION	SAE ARP 1536A	MIN 45,000 CYCLES
SMOKE	ASTM E-662	56
LIMITING OXYGEN INDEX	ASTM D-2863	22
TML	ASTM E-595 @ 10-5 TORR	1.10%
CVCM		0.01%
WVR		0.69%

Chemical Resistance

SOLVENTS	NO EFFECT	LITTLE EFFECT	MODERATE EFFECT	GREATER EFFECT	SEVERE EFFECT
ALIPHATIC SOLVENTS	4	0	0	0	0
AROMATIC SOLVENTS	4	0	0	0	0
CHLORINATED SOLVENTS	4	0	0	0	0
DE-ICING FLUID	4	0	0	0	0
ESTERS/KETONES	4	0	0	0	0
FUNGUS	4	2	0	0	0
HYDRAULIC FLUID	4	0	0	0	0
LUBE OIL	4	0	0	0	0
PETROLEUM	4	2	0	0	0
SALT WATER	4	0	0	0	0
SALTS	4	0	0	0	0
STRONG ACIDS	4	2	2	2	2
STRONG BASES	4	2	0	0	0
STRONG OXIDANTS	4	2	2	2	2
UV LIGHT	4	0	0	0	0
WEAK BASES	4	0	0	0	0

Thermals

MELT POINT	MAXIMUM CONTINUOUS
509°F / 265°C	302°F / 150°C
OPERATING TEMPERATURE	MINIMUM CONTINUOUS
-76°F / -60°C TO 302°F / 150°C	-76°F / -60°C

Contact Us

1.800.837.7477 | info@atkinsandpearce.com
www.atkinsandpearce.com

One Braid Way, Covington, KY 41017
 United States of America

Atkins & Pearce