

**FLEXO PPS**

- FAR 25 Approved
- Ultra-Light Weight
- Highly Wear Resistant
- Expands Up To 150%
- Resists Acids, Bases, Solvents And Fuels
- Cut And Abrasion Resistant

**Put-Ups**

Nominal Size	Part #	Expansion Range		Bulk Spool	Shop Spool	Available Colors	Lbs/100'
		Min	Max				
1/8"	RYN0.13	3/32"	1/4"	1,000'	225'	2	0.21
1/4"	RYN0.25	1/8"	3/8"	1,000'	200'	2	0.36
1/2"	RYN0.50	1/4"	3/4"	500'	100'	2	0.59
3/4"	RYN0.75	1/2"	1 1/4"	250'	75'	2	0.75
1 1/4"	RYN1.25	3/4"	1 3/4"	250'	50'	2	1.30
1 3/4"	RYN1.75	1 1/4"	2 1/2"	200'	50'	2	1.60
2"	RYN2.00	1 5/16"	2 3/8"	200'	50'	2	2.00

**Ultra Lightweight High-Temp Tolerant And Virtually Impervious To Chemical Degradation**

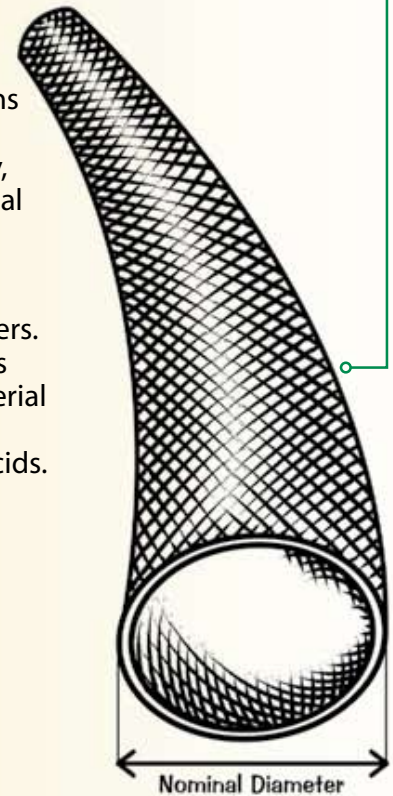
FLEXO PPS expandable sleeving is used in high temperature, flame resistant wire harnesses and cable assemblies. Flexo PPS is an extremely lightweight sleeving, resistant to high temperatures and virtually impervious to solvents. This sleeving is ideal for aerospace, telecom and military applications and meets many engineering goals including; chemical resistance, high temperature stability, zero moisture absorption, excellent dimensional stability and ultra-low wear.

Flexo PPS is braided from 8 mil flame resistant PolyPhenylene Sulfide (PPS) monofilament fibers. PPS offers the broadest resistance to chemicals of any advanced engineering plastic. The material resists all known solvents below 392°F (200°C) and is inert to steam, strong bases, fuels and acids.

■ **Colors Available:**  
2 = NT and BK.



**Cut Cleanly  
Hot Knife**



■ **A true aerospace material, Flexo PPS is ideal in satellite applications where weight and stability are of primary importance.**

Colors Available:



Natural (NT) and Black (BK).

**Material**  
Polyethylene Sulphide

**Grade**  
RYN

**Monofilament Diameter**  
.008"

**Drawing Number**  
TF001RY-WD



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**UL94 V-O FAR-25**



**FLEXO PPS**



**Abrasion Resistance**  
**Medium**

**Abrasion Test Machine**  
**Taber 5150**

**Abrasion Test Wheel**  
**Calibrase H-18**

**Abrasion Test Load**  
**500g**

**Room Temperature**  
**71°F**

**Humidity**  
**59%**

**Very Visible Wear And**  
**Several Filaments Broken**  
**100 Test Cycles**

**Wear Continues**  
**150 Test Cycles**

**Material Destroyed**  
**450 Test Cycles**

**Pre-Test Weight**  
**3,079.2 mg**

**Post-Test Weight**  
**2,614.9mg**

**Test End Loss Of Mass**  
**Point Of Destruction**  
**464.3 mg**



**Rating** \_\_\_\_\_ **FAR 25, UL94 V-0**



**Chemical Resistance**

1=No Effect    4=More Affected  
 2=Little Effect    5=Severely Affected  
 3=Affected

Aromatic Solvents	_____	1
Aliphatic Solvents	_____	1
Chlorinated Solvents	_____	1
Weak Bases	_____	1
Salts	_____	1
Strong Bases	_____	1
Salt Water 0-S-1926	_____	1
Hydraulic Fluid MIL-H-5606	_____	1
Lube Oil MIL-L-7808	_____	1
De-Icing Fluid MIL-A-8243	_____	1
Strong Acids	_____	1
Strong Oxidants	_____	1
Esters/Keytones	_____	1
UV Light	_____	1
Petroleum	_____	1
Fungus ASTM G-21	_____	1
Halogen Free	_____	Yes
RoHS	_____	Yes
SVHC	_____	

**Melt Point**  
 ASTM D-2117  
**545°F (285°C)**

**Maximum Continuous**  
 MIL-I-23053  
**392°F (200°C)**

**Minimum Continuous**  
**-94°F (-70°C)**



**PHYSICAL PROPERTIES**

Monofilament Diameter	_____	.008
ASTM D-204		
Flammability Rating	_____	FAR 25, UL94 V-0
Recommended Cutting	_____	Hot Knife
Colors	_____	2
Wall Thickness	_____	.024
Tensile Strength (Yarn)	_____	6.1
ASTM D-2256 Lbs		
Specific Gravity ASTM D-792	_____	1.37
Moisture Absorption	_____	.02
% ASTM D-570		
Hard Vacuum Data ASTM E-595 at 10-5 torr		
TML	_____	.08
CVCM	_____	.00
WVR	_____	.04
Smoke D-Max	_____	
ASTM E-662		
Outgassing	_____	Low
Oxygen Index	_____	40
ASTM D-2863		