

**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



**Cut Cleanly  
Hot Knife**

<b>Material</b>	<b>Polyethylene Sulphide</b>
<b>Grade</b>	<b>RYN</b>
<b>Monofilament Diameter</b>	<b>.008"</b>
<b>Drawing Number</b>	<b>TF001RY-WD</b>

**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.

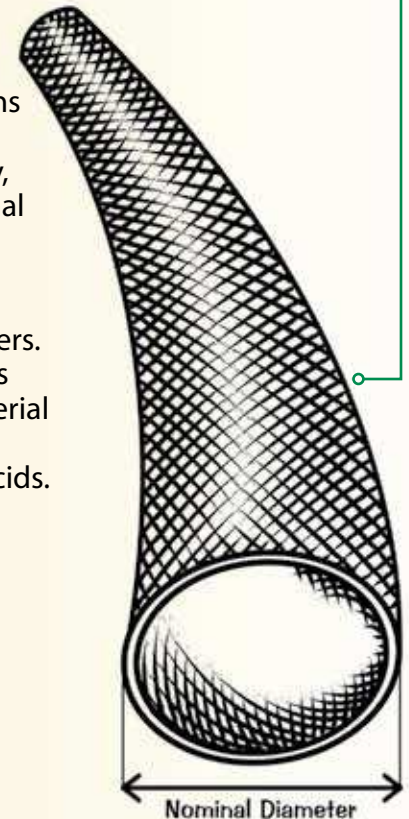
■ **Colors Available:**  
2 = NT and BK.

■ **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).



**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**

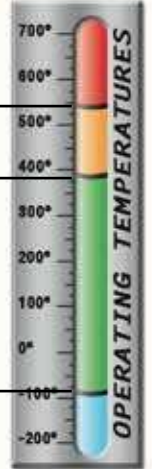
1=No Effect    4=More Affected  
 2=Little Effect    5=Severely Affected  
 3=Affected

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

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