

ADVANCED ENGINEERING Technical Data Sheet

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



Hot Knife

Material **Polyethylene Sulphide**

Grade RYN

Monofilament Diameter .008"

Drawing Number TF001RY-WD



			- Put-ops -				
Nominal	Part #	Expansion Range		Bulk	Shop	Available	Lbs/
Size	#	Min	Max	Spool	Spool	Colors	100′
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
10 Mil							
1/8″	RZH0.13NT	1/8″	9/32″	1,000′	225′	NT	0.26

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.

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).



2 = NT and BK



UL94 V-O



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800

100°

2000



Abrasion Resistance Medium

Rating ______ FAR 25, UL94 V-O

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



1=No Effect 2=Little Effect 3=Affected

- 4=More Affected 5=Severely 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/Ketones _____ 1 UV Light _____ 1 Petroleum Fungus ASTM G-21_____1 Halogen Free Yes RoHS Yes SVHC

545°F (285°C) Maximum Continuous *Mil-I-23053* 392°F (200°C) 200°

Melt Point ASTM D-2117

Minimum Continuous -94°F (-70°C)

O PHYSICAL PROPERTIES

Monofilament Diameter ASTM D-204	.008″					
Flammability RatingFAR 25, UL9	94 V-O					
Recommended Cutting Hot Knife						
Colors	2					
Wall Thickness	024″					
Tensile Strength (Yarn) ASTM D-2256 Lbs	_ 6.1					
Specific Gravity ASTM D-792	1.37					
Moisture Absorption % ASTM D-570	02					
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 ASTM D-2863	40					

TEMPERA

ERATING

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