

PRODUCT COMPARISON

GENERAL PURPOSE



Grade	PTN	PTO	PTT	PTM	PTD	F6N	F360	F6W	CCP	FWN	
Page Number	6-7	8	8	9	9	10-11	11	12	13	14	

PHYSICAL PROPERTIES

Monofilament Diameter ASTM D-204	.010	.010	.010	.010	.010	.008-.015	.010-.015	.009	.008	.010	
Flammability Rating*	UL94	UL94	UL94	UL94	UL94	UL94	UL94	UL94	UL94	—	
Recommended Cutting	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissor/HK	Hot Knife	
Colors	30	7	5	5	2	4	1	2	2	4	
Wall Thickness	.025	.025	.025	.025	.025	.024-.038	.030-.035	.027	.024	.025	
Tensile Strength (Yarn) ASTM D-2256 Lbs	7.5	7.5	7.5	7.5	7.5	6-10	6-10	6-10	6	7.5	
Abrasion Resistance	Med	Low	Med	Med	Med	Med	Med	Med	Med	Med	
Specific Gravity ASTM D-792	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38	
Moisture Absorption % ASTM D-570	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	.1-2	

Hard Vacuum Data ASTM E-595 at 10-5 torr

TML	.19	.19	.19	.19	.19	.19	.19	.19	.19	—	
CVCM	.00	.00	.00	.00	.00	.00	.00	.00	.00	—	
WVR	.16	.16	.16	.16	.16	.16	.16	.16	.16	—	
Smoke D-Max ASTM E-662	56	56	56	56	56	56	56	56	56	—	
Outgassing	Med	Med	Med	Med	Med	Med	Med	Med	Med	—	
Oxygen Index ASTM D-2863	21	21	21	21	21	21	21	21	21	—	

OPERATING TEMPERATURES

Minimum Continuous	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	
Maximum Continuous MIL-I-23053	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	
Melt ASTM D-2117	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	482°F/250°C	

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

Aromatic Solvents	2	2	2	2	2	2	2	2	2	2	
Aliphatic Solvents	1	1	1	1	1	1	1	1	1	1	
Chlorinated Solvents	3	3	3	3	3	3	3	3	3	3	
Weak Bases	1	1	1	1	1	1	1	1	1	1	
Salts	1	1	1	1	1	1	1	1	1	1	
Strong Bases	2	2	2	2	2	2	2	2	2	2	
Salt Water Q-S-1926	1	1	1	1	1	1	1	1	1	1	
Hydraulic Fluid MIL-H-5606	1	1	1	1	1	1	1	1	1	1	
Lube Oil MIL-L-7808	1	1	1	1	1	1	1	1	1	1	
De-Icing Fluid MIL-A-8243	1	1	1	1	1	1	1	1	1	1	
Strong Acids	3	3	3	3	3	3	3	3	3	3	
Strong Oxidants	2	2	2	2	2	2	2	2	2	2	
Esters/Ketones	1	1	1	1	1	1	1	1	1	1	
UV Light	1	1	1	1	1	1	1	1	1	1	
Petroleum	1	1	1	1	1	1	1	1	1	1	
Fungus ASTM G-21	1	1	1	1	1	1	1	1	1	1	
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SVHC	None	None	None	None	None	None	None	None	None	None	
UL/CSA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	

*Techflex® recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-0 RAW MATERIAL

HEAVY DUTY



	GWN	HWN	SDN	NHN	RRN	DFN	DWN	F6H	DBN	DPN	DWT	DWG
	15	16	17	18	19	22	23	24	26	27	28	29
	.010	.015	.020	FLAT FILAMENT .020	.010	NA	NA	NA	NA	NA	NA	NA
	—	UL94	—	—	—	—	—	—	—	—	—	—
	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor
	1	3	1	1	1	1	1	1	1	1	1	1
	.025	.038	.05	.05	.025	.045	.026	.06	.064	.08	.02	.05
	7.5	10	19	19	7.5	—	—	—	—	—	—	—
	Med	High	High	Extremely High	Med	High	Extremely High	Extremely High	Extremely High	Extremely High	Extremely High	Extremely High
	1.38	1.38	1.14	1.12	1.38	1.14	1.13	1.38	1.38	1.14	1.3	1.3
	.1-2	.1-2	2.5	2.5	.1-2	2.7	2.7	2.7	.1-2	2.7	—	—
	—	.19	1.10	1.10	—	1.10	—	1.10	—	1.10	—	—
	—	.00	.01	.01	—	.01	—	.01	—	.01	—	—
	—	.16	.69	.69	—	.69	—	.69	—	.69	—	—
	—	56	—	—	—	—	—	—	—	—	—	—
	—	Med	High	High	—	High	—	High	—	High	—	—
	—	21	22	22	—	22	—	22	—	22	—	—
	-94°F/-70°C	-94°F/-70°C	-49°F/-45°C	-76°F/-60°C	-94°F/-70°C	-49°F/-45°C	-60°F/-51°C	-94°F/-70°C	-94°F/-70°C	-49°F/-45°C	-40°F/-40°C	-60°F/-51°C
	257°F/125°C	257°F/125°C	302°F/150°C	302°F/150°C	257°F/125°C	248°F/120°C	200°F/93°C	257°F/125°C	257°F/125°C	248°F/120°C	250°F/140°C	250°F/140°C
	482°F/250°C	482°F/250°C	493°F/256°C	509°F/265°C	482°F/250°C	410°F/210°C	410°F/210°C	482°F/250°C	482°F/250°C	410°F/210°C	800°F/427°C	—
	2	2	1	1	2	1	1	2	2	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
	3	3	1	1	3	1	1	3	3	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
	2	2	2	2	2	2	2	2	2	2	2	1
	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	1	1	1	1	1	1	1	1	1	1
	3	3	5	5	3	5	4	3	3	5	4	4
	2	2	5	5	2	5	4	2	2	5	4	4
	1	1	1	1	1	1	1	1	1	1	1	1
	1	1	2	1	1	2	1	1	1	2	1	1
	1	1	3	2	1	3	2	1	1	3	2	1
	1	1	2	2	1	2	1	1	1	2	1	1
	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	—	—
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	None	None	None	None	None	None	—	None	None	None	—	—
	Yes	Yes	No	No	No	No	No	No	No	No	—	—

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PRODUCT COMPARISON

METAL/SHIELDING



Grade	MBN	MFN	MBS	MBB	MBC	SSN	SSL	FSN	CNN	
Page Number	30	31	32	33	33	34	35	36	37	
PHYSICAL PROPERTIES										
Monofilament Diameter ASTM D-204	.005-.010	.005-.010	.005-.010	.005	.005	.010-.016	.005-.010	.010	.011	
Flammability Rating*	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Self Extinguishing	—	
Recommended Cutting	Shears	Shears	Shears	Shears	Shears	Shears	Shears	Shears	Hot Knife	
Colors	1	1	1	1	1	1	1	1	1	
Wall Thickness	.013-.025	NA	.013-.025	.013	.013	.025-.04	.013-.025	.025	.028	
Tensile Strength (Yarn) ASTM D-2256 Lbs	—	—	—	—	—	—	—	—	—	
Abrasion Resistance	Med	Med	Med	Med	Med	High	High	Low	Med	
Specific Gravity ASTM D-792	8.9	8.9	8.9	8.5	8.9	NA	NA	NA	1.13	
Moisture Absorption % ASTM D-570	NA	NA	NA	NA	NA	NA	NA	NA	2.5	
Hard Vacuum Data ASTM E-595 at 10-5 torr										
TML	—	—	—	—	—	.00	.00	—	—	
CVCN	—	—	—	—	—	.00	.00	—	—	
WVR	—	—	—	—	—	.00	.00	—	—	
Smoke D-Max ASTM E-662	—	—	—	—	—	—	—	—	—	
Outgassing	—	—	—	—	—	Very Low	Very Low	—	—	
Oxygen Index ASTM D-2863	—	—	—	—	—	—	—	—	—	
OPERATING TEMPERATURES										
Minimum Continuous	—	—	—	—	—	—	—	-40°F/-40°C	-49°F/-45°C	
Maximum Continuous Mil-I-23053	—	—	—	—	—	—	—	302°F/150°C	302°F/150°C	
Melt ASTM D-2117	pg. 28	pg. 29	pg. 30	1,650°F/900°C	1,981°F/1,083°C	2,650°F/1,454°C	2,650°F/1,454°C	449°F/232°C	482°F/250°C	
CHEMICAL RESISTANCE 1 = No Effect 2 = Little Effect 3 = Affected 4 = More Affected 5 = Severely Affected										
Aromatic Solvents	1	1	1	1	1	1	1	2	1	
Aliphatic Solvents	1	1	1	1	1	1	1	1	1	
Chlorinated Solvents	1	1	1	2	1	1	1	3	1	
Weak Bases	1	1	1	1	1	1	1	1	1	
Salts	1	1	1	1	1	2	2	1	1	
Strong Bases	2	2	2	5	2	2	2	2	2	
Salt Water 0-S-1926	1	1	1	1	1	2	2	1	1	
Hydraulic Fluid MIL-H-5606	1	1	1	1	1	1	1	1	1	
Lube Oil MIL-L-7808	1	1	1	1	1	1	1	1	1	
De-Icing Fluid MIL-A-8243	1	1	1	1	1	1	1	1	1	
Strong Acids	5	5	5	5	5	2	2	3	4	
Strong Oxidants	5	5	5	5	5	2	2	2	4	
Esters/Ketones	1	1	1	1	1	1	1	1	1	
UV Light	2	2	2	2	2	1	1	1	2	
Petroleum	2	2	2	2	2	1	1	1	3	
Fungus ASTM G-21	2	2	2	2	2	1	1	1	2	
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SVHC	None	None	None	None	None	None	None	None	None	
UL/CSA	No	No	No	No	No	No	No	Yes	No	

*Techflex® recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-O RAW MATERIAL

ADVANCED ENGINEERING



	CCF	FRN	F6V	F6F	FWF	F9T	HTN	TFN	RYN	PKN	PKRY	UFR
	38	39	40	41	42	43	44	45	46	47	48	49
	.008	.010	.010	.008-.015	.010	.009	.011	.016	.008	.010	.008-.010	
	VW-1	VW-1	VW-1	VW-1	VW-1	FAR 25, VW-1	FAR 25, VW-1	FAR 25	FAR 25, UL94 V-0	V-0	UL94 V-0	
	Scissor/HK	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Wire/Knife	Hot Knife	Hot Knife	Hot Knife	
	2	4	1	1	1	1	3	1	2	1	2	
	.024	.025	.027	.024-.038	.025	.023	.028	.04	.024	.025		
	4	5	4-6.5	4-6.5	5	4.5	4.3	2.1	6.1	—		
	Med	Med	Med	High	Med	Med	Med	Very High	Med	Med		
	1.38	1.38	1.38	1.38	1.38	1.38	1.68	2.15	1.3	1.32		
	.1-.2	.1-.2	.1-.2	.1-.2	.1-.2	.1-.2	.02	<.01	.02	<.005		
	.19	.19	.19	.19	—	.19	.18	.00	.08	.26	.39	
	.04	.04	.04	.04	—	.04	.02	.00	.00	.00	.00	
	.06	.06	.06	.06	—	.06	0	0	.04	.02	.27	
	275	275	275	275	—	275	94	—	—	—	2.3	
	Med	Med	Med	Med	—	Med	Low	Very Low	Low	Low	Low	
	31	31	31	31	—	31	64	> 95	40	24	37	
	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-103°F/-75°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	
	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	257°F/125°C	302°F/150°C	550°F/280°C	392°F/200°C	500°F/260°C	392°F/200°C	
	482°F/250°C	482°F/250°C	482°F/250°C	446°F/230°C	482°F/250°C	482°F/250°C	482°F/250°C	590°F/310°C	545°F/285°C	633°F/334°C	545°F/285°C	
	2	2	2	2	2	2	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	3	3	3	3	3	3	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	2	2	2	2	2	2	1	1	1	3	2	
	1	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	3	3	3	3	3	3	1	1	1	3	1	
	2	2	2	2	2	2	1	1	1	1	1	
	2	2	2	1	2	2	2	2	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	1	1	1	1	1	1	1	1	1	1	1	
	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	None	None	None	None	None	None	None	None	None	None	None	
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No		

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Grade	NXN	KVX	KVN	VEN	FGN	FGS	FGL	FHN	Spark Plug	SCN
Page Number	50	52	53	53	54	55	56	57	58	59

PHYSICAL PROPERTIES

Monofilament Diameter ASTM D-204	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Flammability Rating*	Self Extinguishing	—	—	Self Extinguishing	VW-1	VW-1	VW-1	VW-1	VW-1	
Recommended Cutting	Scissor/ Shears	Shears	Shears	Shears	Scissor	Scissor	Scissor	Scissor	NA	
Colors	2	2	1	1	2	1	2	1	4	
Wall Thickness	.016		.02	.025	.031-.061	.05-.09	.006-.016	.010-.024	.085	
Tensile Strength (Yarn) ASTM D-2256 Lbs	8	39	39	20	—	—	—	—	—	
Abrasion Resistance	Low	High	Med	High	High	High	Med	Med	High	
Specific Gravity ASTM D-792	1.38	1.44	1.44	1.4	1.0-1.8	1.0-1.8	1.0-1.8	1.0-1.8	1.0-1.8	
Moisture Absorption % ASTM D-570	4	—	—	<.005	.01	.01	.01	.01	.01	

Hard Vacuum Data ASTM E-595 at 10-5 torr

TML	3.94	3.13	3.13	.21	—	—	—	.01	—	
CVCM	.18	.19	.19	.00	—	—	—	.00	—	
WVR	2.91	1.76	1.76	.00	—	—	—	.00	—	
Smoke D-Max ASTM E-662	—	—	—	—	—	—	—	—	—	
Outgassing	—	High	High	Med	—	—	—	.19	—	
Oxygen Index ASTM D-2863	28	29	29	>30	—	—	—	—	—	

OPERATING TEMPERATURES

Minimum Continuous	-76°F/-60°C	-274°F/-170°C	-274°F/-170°C	—	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	
Maximum Continuous Mil-I-23053	428°F/220°C	320°F/160°C	320°F/160°C	—	1,202°F/650°C	1,202°F/650°C	1,202°F/650°C	1,202°F/650°C	1,202°F/650°C	
Melt ASTM D-2117	662°F/350°C	Will Not Melt	Will Not Melt	625°F/330°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C	

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

Aromatic Solvents	—	2	2	—	1	1	1	1	1	
Aliphatic Solvents	—	2	2	—	1	1	1	1	1	
Chlorinated Solvents	—	2	2	1	1	1	1	1	1	
Weak Bases	—	1	1	—	1	1	1	1	1	
Salts	—	1	1	—	1	1	1	1	1	
Strong Bases	1	2	2	—	1	1	1	1	1	
Salt Water O-S-1926	—	1	1	1	1	1	1	1	1	
Hydraulic Fluid MIL-H-5606	—	1	1	1	1	1	1	1	1	
Lube Oil MIL-L-7808	—	1	1	1	1	1	1	1	1	
De-Icing Fluid MIL-A-8243	—	1	1	—	1	1	1	1	1	
Strong Acids	2	2	2	—	2	2	2	2	2	
Strong Oxidants	2	2	2	—	2	2	2	2	2	
Esters/Ketones	—	1	1	—	1	1	1	1	1	
UV Light	2	4	4	—	2	2	2	2	2	
Petroleum	1	1	1	1	1	1	1	1	1	
Fungus ASTM G-21	—	2	2	—	1	1	1	1	1	
Halogen Free	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
RoHS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
SVHC	None	None	None	None	None	None	None	None	None	
UL/CSA	No	No	No	No	Yes	Yes	Yes	Yes	Yes	

*Techflex® recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-O RAW MATERIAL

EXTREME TEMPERATURE



	FHH	HFN	HSN	VVN	THERMA SHIELD	T6F	CNS	TST	SLN	WWH	FIN	FIA
	59	60	60	61	62-63	64	65	65	66	67	68	69
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	VW-1	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable	Non Flammable
	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor	Scissor/Shears	Scissor	Scissor
	1	2	1	1	1	1	1	1	1	1	2	2
	.025-.035	.0625-.125	.0625-.125	.0625	See Pg. 62-63	.042	.025	.068	.06	.04	.072	.115
	—	—	—	—	—	—	—	—	—	—	Extremely High	Extremely High
	Med	NA	NA	NA	NA	NA	NA	NA	Med	High	NA	NA
	1.0-1.8	2.6	2.2	3.2	—	—	—	—	—	NA	—	—
	.01	—	—	—	—	—	—	—	—	—	—	—
	.01	—	—	—	—	—	—	—	—	—	—	—
	.00	—	—	—	—	—	—	—	—	—	—	—
	.00	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—
	Low	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—
	-94°F/-70°C	-70°F/-57°C	—	-436°F/-260°C	-76°F/-60°C	-76°F/-60°C	-76°F/-60°C	-76°F/-60°C	—	-40°F/-40°C	-65°F/-54°C	-65°F/-54°C
	1,202°F/650°C	1,200°F/649°C	2,000°F/1,093°C	1,292°F/700°C	491°F/255°C	392°F/200°C	392°F/200°C	392°F/200°C	1,800°F/982°C	400°F/204°C	500°F/260°C	500°F/260°C
	2,048°F/1,120°C	2,048°F/1,120°C	3,000°F/1,649°C	2,642°F/1,450°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C	2,048°F/1,120°C	3,000°F/1,649°C	NA	2,048°F/1,120°C	2,048°F/1,120°C
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	2	2	2	2	2	2	2	2	2	—	2	2
	2	2	2	2	2	2	2	2	2	—	2	2
	1	1	1	1	1	1	1	1	1	—	1	1
	2	2	2	2	1	1	1	1	2	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	1	1	1	1	1	1	1	1	1	—	1	1
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	Yes	Yes
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	—	Yes	Yes
	None	None	None	None	—	—	—	—	None	—	—	—
	Yes	No	No	No	No	No	No	No	No	No	No	No

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PRODUCT COMPARISON

EXTREME TEMPERATURE

SPECIALTY



Grade	FIW	FIF	SRF	GRF	DGN	L6N	F6Z	NYN	NMN	F6R
Page Number	70	70	73	73	75	76	77	78	79	80
PHYSICAL PROPERTIES										
Monofilament Diameter ASTM D-204	NA	NA	NA	NA		NA	.015	.012	NA	.008-.015
Flammability Rating*	Non Flammable	Non Flammable	—	—		—	—	—	—	—
Recommended Cutting	Scissor	Scissor	Scissor	Scissor		Scissor	Hot Knife	Hot Knife	Scissor	Hot Knife
Colors	1	3	1	1		1	1	1	1	1
Wall Thickness	.045	.094	.014	.006		.046	.038	.03	.03-.06	.024-.025
Tensile Strength (Yarn) ASTM D-2256 Lbs	—	Extremely High	—	—		—	6-10	10.5	—	—
Abrasion Resistance	—	NA	—	—		—	Med	High	Extremely High	Low
Specific Gravity ASTM D-792	—	—	—	—		1.38	1.38	1.14	1.14	1.38
Moisture Absorption % ASTM D-570	—	—	—	—		.1-2	.1-2	2.5	2.5	.1-2
Hard Vacuum Data ASTM E-595 at 10-5 torr										
TML	—	—	—	—		—	.19	1.10	1.10	—
CVCM	—	—	—	—		—	.00	.01	.01	—
WVR	—	—	—	—		—	.16	.69	.69	—
Smoke D-Max ASTM E-662	—	—	—	—		—	56	—	—	—
Outgassing	—	—	—	—		—	Med	High	High	—
Oxygen Index ASTM D-2863	—	—	—	—		—	21	22	22	—
OPERATING TEMPERATURES										
Minimum Continuous	-65°F/-54°C	-65°F/-54°C	—	—		-94°F/-70°C	-94°F/-70°C	-49°F/-45°C	-49°F/-45°C	-22°F/-30°C
Maximum Continuous Mil-I-23053	500°F/260°C	500°F/260°C	1,050°F/566°C	500°F/260°C		257°F/125°C	257°F/125°C	302°F/150°C	248°F/120°C	257°F/125°C
Melt ASTM D-2117	2,048°F/1,120°	2,048°F/1,120°	—	850°F/454°C		482°F/250°C	482°F/250°C	493°F/256°C	428°F/220°C	446°F/230°C
CHEMICAL RESISTANCE 1 = No Effect 2 = Little Effect 3 = Affected 4 = More Affected 5 = Severely Affected										
Aromatic Solvents	1	1	—	—		2	2	1	1	2
Aliphatic Solvents	1	1	—	—		1	1	1	1	1
Chlorinated Solvents	1	1	—	—		2	3	1	1	3
Weak Bases	1	1	—	—		1	1	1	1	1
Salts	1	1	—	—		1	1	1	1	1
Strong Bases	1	1	—	—		3	2	2	2	2
Salt Water 0-S-1926	1	1	—	—		1	1	1	1	1
Hydraulic Fluid MIL-H-5606	1	1	—	—		1	1	1	1	1
Lube Oil MIL-L-7808	1	1	—	—		1	1	1	1	1
De-Icing Fluid MIL-A-8243	1	1	—	—		1	1	1	1	1
Strong Acids	2	2	—	—		3	3	5	5	3
Strong Oxidants	2	2	—	—		2	2	5	5	2
Esters/Ketones	1	1	—	—		1	1	1	2	1
UV Light	1	1	—	—		1	1	2	2	1
Petroleum	1	1	—	—		1	1	3	2	1
Fungus ASTM G-21	1	1	—	—		1	1	2	3	1
Halogen Free	Yes	Yes	—	—		Yes	Yes	Yes	Yes	Yes
RoHS	Yes	Yes	—	—		Yes	Yes	Yes	Yes	Yes
SVHC	—	—	—	—		None	None	None	None	—
UL/CSA	No	No	No	No		No	No	No	No	No

Techflex® recommends that F6 Self-Wrapping products be tied at intervals if they are going to be continually exposed to temperatures near the high end of the continuous operating temperature.

*UL94 V-0 RAW MATERIAL

SPECIALTY



	RFN	NRN	F6Q	SKN	FPW	DRN	NSN	MYN/MYE	CHN	CXN	FFN	FTN	CAL/CAN/CAH
	80	81	81	82	84	86	87	88	89	89	90	90	91
	.010	.010	.008-.015	NA		NA	.028	.010	.010	.005	.006	.002-.003	NA
	—	UL94	UL94	—		—	—	—	—	—	UL94		Non Flammable
	Hot Knife	Scissor /HK	Scissor /HK	Scissor	Scissor	Scissor	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Hot Knife	Scissor
	2	1	1	1 Reversible	1	1	3	2	1	3	1	1	1
	.026	.025	.04	.048	.013	.012	.07	.025	.025	.013	.015	.005+ .008	.013-.030
	—	7.5	7.5	NA		—	—	—	—	—	4.5		—
	Low	Med	Med	Low		Extremely High	Med	Very Low	Med	Med	Low	Low	Med
	1.38	1.38	1.38	NA		1.13	1.38	1.3	1.3	1.3	1.38	1.14	1.75-1.85
	.1-2	.1-2	.1-2	NA		2.7	.1-2	.1-2	—	.1-2	.1-2	2.5	—
	—	.19	.19	—		—	—	.19	.19	.19	.19	1.10	—
	—	.00	.00	—		—	—	.00	.00	.00	.00	.01	—
	—	.16	.16	—		—	—	.16	.16	.14	.16	.69	—
	—	—	—	—		—	—	—	—	—	—	—	—
	—	Med	Med	—		—	—	Med	Med	Med	Med	High	—
	—	21	21	—		—	—	21	21	21	21	22	—
	-22°F/-30°C	-94°F/-70°C	-94°F/-70°C			-60°F/-51°C	-40°F/-40°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-94°F/-70°C	-49°F/-45°C	—
	257°F/125°C	257°F/125°C	257°F/125°C			200°F/93°C	175°F/79°C	257°F/125°C	257°F/125°C	302°F/150°C	257°F/125°C	248°F/120°C	—
	446°F/230°C	446°F/230°C	446°F/230°C			410°F/374°C	260°F/126°C	482°F/250°C	482°F/250°C	500°F/260°C	482°F/250°C	428°F/220°C	NA
	2	2	2	1		1	2	2	2	2	2	1	—
	1	1	1	1		1	1	1	1	1	1	1	—
	3	3	3	1		1	3	3	3	3	3	1	—
	1	1	1	1		1	1	1	1	1	1	1	—
	1	1	1	1		1	1	1	1	1	1	1	—
	2	2	2	2		2	2	3	3	3	2	2	—
	1	1	1	1		1	1	1	1	1	1	1	—
	1	1	1	1		1	1	1	1	1	1	1	—
	1	1	1	1		1	1	1	1	1	1	1	—
	1	1	1	1		1	1	1	1	1	1	1	—
	3	3	3	4		3	3	3	3	3	3	5	—
	2	2	2	4		4	2	2	2	2	2	5	—
	1	1	1	1		1	1	1	1	1	1	1	1
	1	1	1	1		1	1	1	1	1	1	2	2
	1	1	1	2		2	1	1	1	1	1	2	—
	1	1	1	1		1	1	1	1	1	1	3	—
	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	—
	Yes	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes	Yes	—
	—	None	None			—	—	None	None	None	None	None	—
	No	No	No			No	No	No	No	No	No	No	No

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