



**Aerospace
Systems Division**

Non Metallic Materials List
For
The LEAM Experiment

ATM
1027

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DATE 8/9/71

Presented herein is a composite list of non metallic materials for the LEAM Experiment.

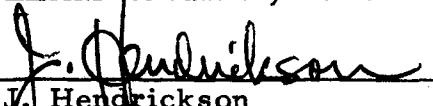
Section A presents the nonmetallic materials list for BxA.

Section B presents the nonmetallic materials list for TIME - ZERO.


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Non Metallic Materials List
For
The LEAM Experiment
BxA

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SECTION A

Description	Vendor/Spec	Designation	ATM 242	Usage Dwg. No. 2347XXX
<u>Adhesives</u>				
Epoxy, Clear	Armstrong	A-271/ACT V	*	905, 962
Epoxy, Silver-Filled	EMER & CUM	56C/9	120	709, 713, 938
Urethane	Narmco	7343/7139	110	730, 740, 750, 2339074
Epoxy, Filled	Wakefield	Deltabond 152	113	707, 708, 712, 775, 905, 962
Silicon, 1-Part	Dow-Corn	RTV140	122	733, 902, 938
Epoxy	Shell	EPON901/B-1	116	737, 743, 767, 785, 799, 901, 903, 920, 929, 953, 968
Epoxy Paste	Bloomingtondale	Corfil 615	103	785, 799
Epoxy, Clear, Flexible	Emer & Cum	Eccobond 45	123	937
Silicone	GE SPD	RTV615	*	922
<u>Electrical Insulation & Wiring</u>				
Tape, ADH	Mystick	7361	327	700, 914
Tape, ADH	Mystick	7367		700, 953
Tubing Teflon	Hi Temp	TVY-19	301	775
Wire, Insul Teflon	MIL-W-16878	E-26, E-28	302	712, 775
<u>Finishes and Coatings</u>				
Polyester, 2-Part	3M-RPD	Nextel 401-A10	401	705, 737, 905, 914, 962
Epoxy, 2-Part	Wornow	50-403, 50-209	415	743--770, 785, 968, 995, 2339074
Silicone, Filled	IITRI	S-13G	414	742, 785, 799, 901, 919, 921, 936, 937, 981, 985, 998

ATM 242 approval pending



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Description	Vendor/Spec	Designation	ATM 242-	Usage Dwg. No. 2347XXX
<u>Foams & Sponge</u>				
Silicone	Conn HD Rub	R-10470	508	700, 945
	Emer & Cum	Eccofoam FP/12-6	510	764
Urethane, Polyester	Merryweather	A1-2	*	754, 940, 966
Urethane, Polyester	Scott	60PPI	507	787
<u>Lubricants</u>				
Bonded Film, Inorganic	Dow Corning	Molykote 321	610	770, 779, 968
<u>Molding Plastics</u>				
Polycarbonate, 40% Glass	Gen Elec	Lexan	707	950, 990 Ref Fed Spec L-P-393
Polyamide (Nylon)	Dupont	Zytel	706	718
<u>Plastic Laminates</u>				
Epoxy-Glass, Sheet	MIL-P-18177	Gr Geb	807	793
Epoxy-Glass, CU Clad	MIL-P-13949	FL-GE 062C2/2AIIA	811	989
Epoxy-Glass Rod	MIL-P-18177	Gr Geb	807	702, 792, 794
Epoxy-Glass	MIL-P-25241	TY 1, CL-2, No 112	*	760
<u>Potting & Sealing Compounds</u>				
Epoxy, Filled	Emer & Cum	Stycast 2850 ft/11	915	905, 952
Silicone, 1-Part	Dow Corning	DC 92-024	922	700
Thread Sealant Anerobic	Loctite	GR E	918	743



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Description	Vendor/Spec	Designation	ATM 242-	Usage Dwg. No. 2347XXX
<u>Thermoplastics</u>				
Teflon TFE	Dupont	Teflon TFE	1001	778, 2330747 MIL-P-19468 GR A
Teflon FEP, Alum 1S	Dupont	Teflon FEP	1002	740, 751, 753, 765
Polyester, Alum 1S	Dupont	Mylar	1012	720, 751, 753, 765
Parylene Film	Union Carbide	STM-WC-816-A	*	938
<u>Miscellaneous</u>				
Tape, Adh, Reflective	Schjeldahl	G102700	1110	700, 751, 765
Tape, Adh, Reflective	Schjeldahl	G103500	1111	700, 705, 720, 737, 919, 921, 936
Kapton, Alum 1S	Dupont	Kapton	1106	720
Thread, Friction Surface	3M	Scotchred	*	2339074
Thread, Dacron	Premier	V-69	1018	720, 765, 968
Tape, Teflon Glass	Western Fil	90L0F13A	1107	700
" " "	" "	190L0F21A	1107	700
Cord, Braided, Dacron	" "	180DOR16	1018	968
Tape, Lacing, Nomex	Gudebrod	721H	1111	700
Silk, Natural, Habutae	Strassburger	S-905	*	720, 751, 753, 765



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Time Zero

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SECTION B

Material/Process	Description	Specification	Manufacturer	Remarks	ATM 242-
Epoxy-Glass Board	Copper Clad Plastic Laminate	Type GH MIL-P-13949	QPL		808
Laminate Glass Cloth	Thermosetting Epoxy Resin	Type GEB MIL-P-18177	QPL		807
CFM7	Mylar Film		E. I. du Pont		1012
Plastic	Teflon	Type I, Gr. A, MIL-P-22241	QPL		1002
Ablestik 501T	Glass-Epoxy Adhesive Tape		Ablestik Adhesive Co.	NSPAR 19	—
Various Diameters	Polyolefin Shrinkable Tubing	MIL-I-23053	QPL	NSPAR 20	—
Scotch X1157	Polyester Permeable Tape		3M Co.	NSPAR 21	—
Scotch No. 27	Glass Fiber Tape		3M Co.	NSPAR 22	—
Teflon	Tubing, Insulator	AMS 3651			301
Alloy 180	Wire, Ribbon & Rod	S40138			Table I
Glass Cloth	Resin Impregnated (B-Stage)	Type GF MIL-G-55636	QPL	NSPAR 23	810
Plastic Sheet	Thin Laminate, Metal-Clad	Type GF MIL-P-55617	QPL	NSPAR 24	809
260-3824	Teflon Insulated RF Coaxial Cable	MIL-C-17	Microdot	NSPAR 25	—



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Material/Process	Description	Specification	Manufacturer	Remarks	ATM 242-
Eccofoam FPH	Polyurethane Foam	S40092	Emerson & Cuming	Heat cure.	511
Eccobond 51	Adhesive, Epoxy	Type I, Class II S43024	Emerson & Cuming	NSPAR 26	-
Eccobond 285	Adhesive, Epoxy	Type IV, Class II, S43024	Emerson & Cuming		-
RTV 891	Silicone Rubber	Class II S40379	General Electric	Room tempera- ture or heat cure.	-
PT 4121	Conformal Coating Material	S43028	Product Tech., Inc.	NSPAR (approved)	-
No. 1302	Crystal Clear Spray Coat Material	S40396	Krylon, Inc.	NSPAR 27	-
50,000 Series	Ink, Epoxy	S40111	Wornow Process Ink Co.		415
73X	Marking Ink		Independent Ink Co.		403
B-953-HT-200	Component Markers		W. H. Brady Co.	Used for tempo- rary marking only.	-
Mystik 7322	Self-Adhesive Insulating Tape		Mystik Div. Borden		-
Fritz-Copper 150	Ink, Copper Filled Epoxy		Fritz Chem. Co.	in ATM-242E NSPAR 18	-