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PLASTEC NOTE 3

**DEFENSE SPECIFICATIONS AND STANDARDS**

for and relating to

**REINFORCED PLASTICS**



**MARCH  
1963**

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**PLASTICS TECHNICAL EVALUATION CENTER**

PICATINNY ARSENAL  
DOVER, NEW JERSEY

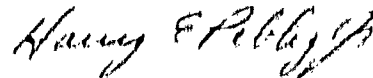
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**DEFENSE SPECIFICATIONS AND STANDARDS**  
for and relating to  
**REINFORCED PLASTICS**

By  
**NORMAN E. BEACH**

**MARCH**  
**1963**

**PLASTICS TECHNICAL EVALUATION CENTER**  
**PICATINNY ARSENAL, DOVER, NEW JERSEY**

## ABSTRACT

This report presents the results of a search for Government specifications and standards which are for or related to reinforced plastics. The findings are listed in six tables, covering general specifications, materials, laminates, filled resins, sandwich construction, and applications. These have been given a simple organization, so that the reader may easily locate those specifications pertaining to his particular interest. The citations are current and complete. In addition to the number-date-title information, the reader can note whether there is a qualified products list issued for the specification, whether the specification is limited to one service or is broadly applicable, who prepared it, and who are its custodians. The tables are followed by an identification of the code used in citing the preparing activities and the custodians of the specifications, a numerical listing of the specifications cited, and a brief instruction on how to procure Government specifications. There are 149 specifications listed.

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## INTRODUCTORY COMMENTS

THE INTENT of this document is to present the widest possible range of specifications and standards which relate (sometimes remotely) to the reinforced plastics field. Thus, laminates are pursued all the way to safety glass and barrier materials; filled materials appear as a concept of resin strengthening; and quite general tests are included. The desire has been to provide a generous reference. The selection is not to be construed as definitive.

SOURCE used was the Department of Defense Index of Specifications and Standards, 30 July 1962. This was supplemented by examination of specifications with promising titles for determination of applicability. References within specifications also provided leads to the more remote, but pertinent, specifications. Not covered are purchase descriptions, tentative specifications, and other within-service specifying media.

THREE LIMITATIONS must be recognized, all of which relate to the source:

- Possibility of human error in the scanning of some 18,000 items.
- Possibility that the specification title did not reflect the tie-in with reinforced plastic.
- Possibility of change in the specification within the time between compilation of the DOD Index and its issuing, or between the writing of this document and its publication. This could be the revision, amendment, or deletion of existing specifications or the appearance of new specifications.

IN SCOPE, the aim has been to include specifications pertaining to all aspects of the reinforced plastics field: those on the basic or raw materials, those on the resin/reinforcement combinations, those on the applications of reinforced plastic, and those of a general nature covering requirements, test methods, tolerances, and so on. Under this broad approach, there are included all specifications which are considered to relate to any resin/reinforcement combination that can be fabricated by any of the open-mold (hand layup, sprayup, filament winding, etc.) or closed-mold (matched metal molding, premixes, etc.) processes.

TYPES OF SPECIFICATIONS covered can be identified from the listings. Six kinds are involved in this study:

Military Handbooks -----	MIL-HDBK-(number)
Military Standards:	
Book-type -----	MIL-STD-(number)
Pamphlet-type -----	MS-(number)
Military Specifications -----	MIL-(LETTER)- (number)
Federal Standards -----	FED-STD-(number)
Federal Specifications -----	(LETTER, -S)- (LETTER)-(number)

Amendment to a specification is identified by a bracketed number following the basic specification number; for example, MIL-A-25463 (2), which indicates that a second amendment governs that specification. Revision is identified by the suffixing of a capital letter to the specification number; for example, MIL-P-16035C, which shows that the third revision of this specification is in effect.

**QUALIFIED PRODUCTS LISTS (QPL's)** are issued for some materials. These QPL's bear the same numbers as the specifications to which they relate. When such are available, it is noted by crossmark in the QPL column in the tables. The activity responsible for the qualified products list is the Chief of the Bureau of Ships, Department of the Navy, Washington 25, D. C., and information pertaining to qualification of products may be obtained from that activity.

**COORDINATED SPECIFICATIONS** cover items of common use. They are the result of cooperative effort of the three services. **LIMITED COORDINATION SPECIFICATIONS** are of interest to a single military department, or are prepared to satisfy an immediate procurement need. The latter are identified by crossmark in the limited coordination column (L. C.) in the tables.

**PREPARING ACTIVITY** and **CUSTODIAN** are identified, by letter code, in the appropriate column in the tables. Expansion of the code is given at the end of the tables. The absence of a custodian notation for any listed document indicates that the department has no existing requirement for the product or service covered by the document. The document is therefore not applicable to the procurements of that department unless specifically invoked in contracts or orders.

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Table 1. General Specifications

Part	Coverage	Number	Date	Title	QPL	I. G.	Prepared by	Condition
a	Comprehensive	MIL-M-147(4)	18 August 1961	Molding Machines and Milled Plastic Parts, Thermosetting.	X	*	NH	ND/NH/AND
		MIL-R-110K-17	8 November 1960	Plastics for Flight Vehicles Reinforced Plastics -----	*	*	AND	WP/AND
		MIL-R-110K-23	8 September 1960	Composite Construction for Flight Vehicles Part I Fabrication, Inspection, Durability, and Repair.	*	*	AND	WP/AND
b	Requirements	MIL-R-110-072	21 July 1960	Dimensional Tolerances of Milled Plastic Items -----	*	*	OR	OR
		MIL-R-7004A	23 May 1961	Plastic Parts, Aircraft Exterior, General Requirements and Tests for Non-Fraction Production of.	*	*	AND	TC/AND
		MIL-A-8087C	16 March 1961	Adhesive Bonding, Process and Inspection Requirements for.	*	*	WP	OR/WP/AND
		MIL-P-8400A(1)	18 June 1961	Plastic Laminated Materials and Sandwich Construction, Process Specification Requirements.	*	*	WP	OR/WP/AND
c	Tests	FED-STD-176	30 November 1958	Adhesives, Methods of Testing -----	*	*	OR	YD/AND
		MIL-R-110-854 Change 1	30 November 1958	Temperature and Humidity Test for Use in Production of Parts.	*	*	WP	OR/AND
		MIL-R-110-401A Change 1	30 September 1967	Handbook Construction and Core Materials, General Test Methods.	*	*	WP	OR
		FED-STD-408	5 October 1961	Plastics, Methods of Testing -----	*	*	NH	OR/NH/AND
		MIL-R-110-070	8 June 1960	Classification System and Tests for Cellular Plastics Materials.	*	X	OR	OR
		MIL-D-8071A	7 July 1966	Plasticizer Content for Transparent Laminated Clearing Materials, Determination of.	*	X	AND	AND
d	Other	MIL-C-74801	4 February 1966	Coating System, Monomers, with Epoxy Resin, and with Epoxy Resin with Anti-Static Treatment, for Exterior Aircraft and Missile Plastic Parts.	X	*	AND	OR/WP/AND
		MIL-R-10007C	7 September 1960	Impact K11, Glass Reinforced Plastic Laminates -----	*	X	NH	NH

Table 9. Specifications on Basis of New Materials

Part	Material	Number	Date	Title	QPI	In G.	Prepared by	Classification		
A	Adhesives	MIL-A-140A	28 November 1953	Adhesive, Water-Resistant, Waterproof Adhesive Material	X	-	OM	OM/WP/ARD		
		MIL-A-897A	18 September 1953	Adhesive, Synthetic Resin (For Phenolic Lamination)	X	-	OM	OM/ARD		
		MIL-A-8090B	8 August 1950	Adhesive, Heat Resistant, Airframe Structural Metal to Metal	X	-	WP	WP/ARD		
		MIL-A-80800C	27 March 1950	Adhesive, Heat Resistant, Airframe Structural Metal to Metal	-	-	ARD	ARD		
		MIL-A-8488A(R)	30 November 1954	Adhesive, Application of Room-Temperature and Intermediate-Temperature-Setting Resin (Phenol, Resorcinol, and Melamine Base)	-	-	WP	NO/ARD		
		MIL-A-8688A(I)	23 September 1950	Adhesive, Epoxy Resin, Metal-to-Metal Structural Bonding	X	-	WP	OM/WP		
		MIL-A-1404R	17 July 1959	Adhesive Epoxy	X	X	OM	OM		
		MIL-A-21066(I)	11 May 1960	Adhesive, Resin Type for Material to Aluminum Bonding	X	X	NI	"		
		MIL-A-8648R(R)	18 October 1961	Adhesive, Metallic Structural Sandwich Construction	X*	X	WP	WP/ARD		
		MIL-A-4805I	17 April 1961	Adhesive, Room Temperature and Intermediate Temperature Setting Resin (Phenol, Resorcinol, and Melamine Base)	X	X	OM	"		
		MIL-A-82194	14 September 1961	Adhesive, Epoxy (for Bonding Glass Reinforced Polyester)	X	X	OM	OM		
		B	Core Materials	MIL-C-8135A(I)	28 June 1958	Cellular Phenolic Materials, Fabricated Part	X	-	OM	OM/NI/ARD
				MIL-C-7408C(R)	2 March 1961	Core Material, Aluminum, for Sandwich Construction	X	-	WP	OM/WP/ARD
MIL-R-788R	26 November 1958			Sandwich Construction Core Material, Maple Wood	-	-	WP	OM/ARD		
MIL-RTD-8075A(I)	27 January 1961			Core Material, Plastic Honeycomb, Laminated Glass Fabric Base, for Aircraft Structural Applications	X	-	"	OM		
MIL-C-8075A	27 January 1961			Core Material, Plastic Honeycomb, Laminated Glass Fabric Base, for Aircraft Structural Applications	X	-	WP	OM/WP/ARD		
MIL-C-8087H	8 March 1961			Core Material, Formed-in-Place, Polyester/Phenol Resin Type (ARC)	X	-	WP	WP/ARD		
MIL-C-1884B	21 December 1954			Core Material, Cellular Cellulose Acetate	X	X	WP	"		
MIL-C-21040(I)	28 February 1958			Honeycomb Materials, Structural, Paper Base, Marine Construction	X	X	NI	"		
MIL-C-8192DA	20 October 1959			Core Material, Metallic, Heat-Resisting, for Structural Sandwich Construction	X	X	WP	OM/WP/MCM		
D	Finishes			MIL-P-9118A(I)	27 February 1961	Finish, for Glass Fabric	X	-	WP	OM/WP/ARD
		MIL-Y-1140C	16 February 1956	Vars, Gels, Slushing, Glue, and Tape-Glass	X	-	NI	NO/ARD		
E	Glass	MIL-C-6084H	22 January 1960	Glass, Glass, Finished, for Polyester Resin Lamination	X	X	WP	WP/ARD		
		MIL-P-1228R	24 October 1952	Fabric, Glass, Woven	X	X	OM	OM		
		MIL-M-10617A(I)	23 February 1956	Glass, Fibrous Glass, for Reinforcing Plastics	X	-	NI	OM/MCM		
		MIL-C-19853A	17 January 1958	Glass, Glass, Woven Weaving, for Plastic Lamination	X	X	NI	"		
		MIL-P-8088C(I)	30 September 1960	Tape and Weaving, Textile, Reinforcing, Nylon	X	-	ARD	QM/WP/ARD		
F	Resins	MIL-R-274B	30 April 1958	Resin, Phenol-Formaldehyde, Laminating	X	-	OM	OM/MI		
		MIL-R-7876B(I)	8 February 1961	Resin, Polyester, Low-Pressure Laminating	X	-	WP	NO/WP/ARD		
		MIL-R-8888A(I)	18 April 1961	Resin, Phenolic, Low-Pressure Laminating (ARC)	X	-	WP	WP/ARD		
		MIL-R-8800A	8 February 1961	Resin, Epoxy, Low-Pressure Laminating	X	-	WP	OM/WP/ARD		
		MIL-R-21807(I)	28 June 1961	Resin, Polyester, Low-Pressure Laminating, Fire Resistant	X	X	NI	"		
		MIL-R-2193I(R)	8 July 1960	Resin, Epoxy	X	X	WP	WP		
		MIL-R-88048A	16 July 1960	Resin, Polyester, High Temperature Resistant, Low-Pressure Laminating	X	-	WP	OM/ARD		
		MIL-R-25506A	22 March 1961	Resin, Silicone, Low-Pressure Laminating (ARC)	X*	-	WP	WP/ARD		
		MIL-P-4808H	28 August 1961	Plastic, Polyester, Low-Pressure Laminating, High Temperature Resistant	X	X	OM	OM		

\* QPI, not yet issued

Table G. Specifications on Laminates

Mat	Reinforcement	Number	Date	Notes	QPL	LCI	Wt. Percent by	Qualities		
a	Adhesive base	MI-P-8066A(1)	8 June 1960	Plastic Material, Laminated, Thermosetting, Sheets and Tubes, Adhesive Base, Phenolic Resin.	-	-	*	ARI		
		MI-P-80770	27 November 1961	Plastic Materials, Adhesive Base, Phenolic Resin, Low or High Pressure Laminated (ARC).	-	-	WP	WP/ARI		
b	Cotton base	MI-P-8066A(2)	18 June 1960	Plastic Material, Laminated, Thermosetting, Sheets, Cotton-Fabric-Base, Post Forming.	-	-	WP	OM/ARI		
		MI-P-15000C	10 January 1960	Plastic Sheet, Laminated, Thermosetting, Cotton-Fabric-Base, Phenolic Resin.	-	-	NI	NC/NI/ARI		
		MI-P-10034B	1 January 1959	Plastic Material, Laminated, Phenolic, for Bearings (Water or Grease Lubrication).	X	X	NI	*		
		MI-P-50079A	17 March 1960	Plastic Sheets, Phenolic Resin, Laminated, Thermosetting, Cotton-Fabric-Base (for Missile Application).	-	X	OM	OM		
		MI-P-097C	20 June 1961	Plastic Material, Laminated, Thermosetting, Electrical Insulation, Sheets, Glass Cloth, Mica Resin.	X	-	NI	NC/NI/ARI		
c	Glass base (fabric)	MI-P-0010C(1)	8 October 1959	Plastic Materials, Polyester Resin, Glass Fiber Base, Low Pressure Laminated.	-	-	ARI	OM/NI/ARI		
		MI-P-15007C	18 March 1961	Plastic Sheet, Laminated, Thermosetting, Glass Cloth, Melamine Resin.	X	-	NI	NC/NI/ARI		
		MI-P-17540C(1)	26 June 1961	Plastic Lamination, Fibrous Glass Reinforced, Marine Structural.	-	X	NI	*		
		MI-P-17751C(1)	30 March 1961	Plastic Sheet, Laminated, Thermosetting, Glass Mat, Melamine Resin.	X	-	NI	NC/NI		
		MI-P-10177C	15 December 1961	Plastic Sheet, Laminated, Thermosetting, Glass Fiber Base, Epoxy Resin.	X	-	NI	NI/MOM		
		MI-P-10101A(1)	7 February 1961	Plastic Sheet, Laminated, Glass-Cloth, Polytetrafluoroethylene Resin.	X	-	NI	OM/NI/ARI		
		MI-C-21700A	16 September 1960	Glass-Fiber Base Laminates, Epoxy Resin	-	X	WP	WP		
		MI-P-8000B	26 October 1960	Plastic Lamination, Glass Fabric Base, High Strength	-	X	WP	WP		
		MI-P-8000B	4 October 1967	Plastic Materials, Heat Resistant, Low Pressure Laminated, Glass Fiber Base, Polyester Resin.	-	X	ARI	ARI		
		MI-P-80481A(1)	20 June 1961	Plastic Materials, Glass Fiber Base, Epoxy Resin, Low Pressure Laminated.	-	-	WP	TG/WP/ARI		
		MI-P-80610A(1)	9 May 1961	Plastic Materials, Phenolic Resin, Glass Fiber Base, Low Pressure Laminated (ARC).	-	-	ARI	WP/ARI		
		MI-P-80610A	7 March 1961	Plastic Materials, Mica Resin, Glass Fiber Base, Low Pressure Laminated (ARC).	-	-	WP	WP/ARI		
		MI-P-80640A	10 April 1961	Plastic Sheet, Phenolic, Glass Fabric Reinforced, Heat Resistant.	-	X	OM	*		
		d	Glass base (Sheet)	MI-C-8787C	12 February 1962	Glass, Laminated, Flat (Excess Air Free)	-	-	OM	OM/MOM
				MI-C-6400A	5 December 1957	Glass, Laminated, Flat, Bullet-Resistant	X	-	WP	OM
MI-C-7707A	13 May 1967			Glass, Chopped Laminated, Plain Edge, Extended Plastic Edge, and Extended Plastic Edge with Metal Reinforcement.	-	-	WP	OM		
e	Nylon base	MI-C-8002A(2)	31 May 1967	Glass, Laminated, Flat, Aircraft	-	-	OM	OM/MOM		
		MI-C-80871A(1)	24 November 1960	Glass, Laminated, Aircraft Cladding	-	X	ARI	WP/ARI		
f	Paper base	MI-P-100471(1)	20 March 1962	Plastic Material, Laminated Thermosetting Sheets, Nylon Fabric-Base, Phenolic Resin.	-	-	NI	NC/NI/ARI		
		MI-C-4000A	20 March 1962	Cloth, Laminated, Vinyl-Nylon, High Strength Flexible	-	X	OM	OM		
g	Miscellaneous	MI-P-8110C	22 June 1961	Plastic Sheet, Laminated, Thermosetting, Paper-Base, Phenolic Resin.	X	-	NI	NC/NI/ARI		
		MI-P-8204A	8 April 1962	Plastic Sheet, Laminated, Thermosetting, Paper Base, Epoxy Resin.	X	-	NI	NC/NI		
		MI-P-78A(4)	20 June 1961	Plastic Material, Laminated, Thermosetting (for Dielectric Plates)	-	-	NI	NC/NI/ARI		
		MI-P-70C	15 June 1961	Plastic Materials, Laminated, Thermosetting Resin and Tubes	-	-	NI	NC/NI/ARI		
		MI-P-100491	18 March 1960	Plastic Sheet, Laminated, Copper Cloth	-	-	NC	NC/NI/ARI		
		MI-P-80874A(1)	5 January 1961	Plastic, Sheet, Acrylic, Modified, Laminated	X*	-	WP	TG/WP/ARI		

For explanation of footnotes, see end of table.

Table 3. Specifications on Laminates - Continued

Part	Reinforcement	Number	Date	Title	QPL	In. Cr.	Prepared by	Qualities
a	(In preparation)	MIL-P-48187(MM)	*	4 November 1958	Plastic, Pre-impregnated, Glass Mat, Polyester Resin ***	*	OK	*
		L-1-81						
b	Barrier Mats - Plain	MIL-P-1218	31 May 1959	Barrier Material, Glass-reinforced, Waterproofed, Flexible	X	*	OK	OK/NA/MON
		MIL-P-1310(R)	17 January 1961	Barrier Material, Water Vaporproof, Flexible *****	X	*	WP	OK/WP/ARD
		MIL-P-3009A	13 April 1960	Barrier Material for Moderately Waterproof Interior Packaging Bags.	*	*	OK	OK/MON
		MIL-P-18289B	19 August 1959	Barrier Material, Waterproofed, Flexible, All Temperature.	X	*	OK	OK/NA

\* Available under the MILSPEC

\*\* Various forms

\*\*\* QPL, not yet issued

Table 4. Specifications on Filled Materials

Part	Filler	Number	Date	Title	QPL	In. Cr.	Prepared by	Qualities
a	Asbestos	MIL-M-8108B	20 September 1958	Molding Plastic and Molded Plastic Parts, Asbestos Fiber Filled, Araldite and Plastic-Reinforced Phenolic Resin.	X	X	MM	*
		MIL-P-48090	18 June 1958	Plastic, Asphalt, Asbestos Filled, Molding Material *****	*	X	OK	OK
b	Worsted	MIL-P-19386C(1)	2 March 1960	Plastic Resins, Polyethylene, Virgin and Worsted, Neutron Shielding	*	X	MM	*
c	Glass	MIL-M-19880(S)	28 July 1960	Molding Plastic and Molded Plastic Parts, Glass Fiber Filled, Diallyl Phthalate Resin.	X	X	MM	MM
		MIL-M-19887	10 May 1967	Molding Plastic, Polyamide Resin (Mylar) Glass Fiber Filled and Molded Polyamide Resin Glass Fiber Filled Plastic Parts.	*	X	MM	*
		MIL-M-21347A(1)	18 July 1961	Molding Plastic, Polystyrene, Glass Filled *****	*	*	OK	OK
		MIL-M-22180	10 July 1959	Molding Plastic, Polystyrene, Glass Filled, Fabricated Parts.	*	*	OK	OK
		MIL-P-48048(COMD)	19 October 1961	Plastic, Polyester, Glass Fiber Filled, Pressure Molding Compound.	*	X	OK	OK
d	Graphite	MIL-P-1481(1)	4 December 1958	Plastic, Bisacrole, Graphited, Sheets, Rods, Tubes, and Shapes.	*	X	WP	*
e	Paper	MIL-P-18619A	25 March 1958	Plastic, Thermosetting, Paper-Filled Preforms *****	*	*	NO	OK/WP/ARD
f	Unspecified	MIL-P-18496A	2 February 1960	Plastic Resin, Filled Phenolic, Unspecified *****	*	*	NO	NO/OK/ARD

\* Organic or Inorganic short-fiber filler

Table 5. Specifications on Sandwich Construction

Part	Type	Number	Date	Title	QPL	In. Cr.	Prepared by	Qualities
a	Aluminum	MIL-S-7811	28 August 1958	Sandwich Construction, Aluminum Alloy Faces, Aluminum Foil Honeycomb Core.	*	X	WP	*
b	Glass	MIL-S-9041A(R)	20 July 1961	Sandwich Construction, Plastic Resin, Glass Fabric Faces, Laminated Facing, and Honeycomb Core for Aircraft Structural Applications.	*	*	WP	OK/WP/ARD
		MIL-S-12888	8 November 1957	Sandwich Construction, Plastic Resin, Glass Fabric Faces, Laminated Facing, and Polyester Diisocyanate Faced In-Plane Core for Aircraft Structural Applications.	*	X	ARD	ARD
c	Wood	MIL-S-17017(1)	24 August 1958	Sandwich Construction, Aluminum Alloy Facing, Balsa Wood Core.	*	X	WP	*

Table 6. Specifications on Applications of Reinforced Plastics

Part	App	Number	Date	Type	QPI	In. C.	Prepared by	Outdated		
a	Insulation	MI-1-11060(B)	24 October 1960	Insulation Tape, Electrical Glass Fiber (Woolen-Filled) and Cord, Fibrous Glass.	*	-	NH	NO/NH/DAV		
		MI-1-17410	31 May 1962	Wire, Electrical, Fluorocarbon Insulated, Type V, TFM, PEP, and Fibrous Glass, Silver-Coated Copper.	*	X	WP	*		
		MI-1-1807A(1)	10 March 1961	Insulation Molding, Electrical, Flexible, Glass Fiber, Silicone Rubber Treated.	*	-	NH	NO/NH/DAV		
		MI-1-1868A	8 June 1960	Insulation Tape, Electrical Pressure Sensitive, Silicone Rubber Treated Glass, Electrical Cable Milling, Naval Shipboard.	-	X	NH	DAV		
		MI-1-1919A(B)	21 January 1962	Insulation Tape, Electrical, High Temperature, Glass Fiber, Pressure Sensitive.	X	X	NH	NH		
		MI-1-1952A	22 November 1960	Insulation Sheets, Electrical, Paint-Misc, Silicone Bonded.	X	X	NH	*		
		MI-1-1982H	14 April 1960	Insulation, Electrical, Deloitte Barrier, Laminated, Plastic Film, and Oak Paper.	*	X	NH	NH		
		MI-1-19917	15 June 1967	Insulation Sheet, Electrical, Mica Paper, Silicone Bonded.	X	X	NH	*		
		MI-1-21887A	19 May 1961	Insulation Molding, Electrical, Flexible, Glass Fiber, Vinyl Treated.	X	X	NH	NH		
		MI-1-22444(1)	8 June 1960	Insulation Tape, Electrical, Self Healing Silicone Rubber Treated Glass Woven Glass, Cable Milling, Naval Shipboard.	*	X	NH	*		
		MI-1-22654A	12 April 1962	Insulation, Electrical, Deloitte Barrier, Laminated, Plastic Film, and Synthetic Fiber Mat.	*	X	NH	*		
		b	Microfilm	MI-1-C-878A	18 May 1958	Cloth, Laminated, Cotton, Rubber or Synthetic Rubber Coating, Isable Texture.	*	-	QM	QM/MD
MI-1-H-3000	18 November 1964			Resin, Polyacrylate, Glass-Filled	*	-	CM	CM		
MI-1-C-2302B	30 September 1959			Cloth, Coated and Laminated, Chloroprene on Nylon	*	-	WP	QM/ARD		
MI-1-C-2074	4 January 1964			Cloth, Laminated, Cotton Nylon, Two-Ply Rubberized	*	X	ARD	ARD		
MI-1-P-10602	6 November 1960			Tubing, Plastic, Glass Fabric Mesh, Low Pressure Laminated.	*	X	NO	NO		
MI-1-C-1100H	4 May 1962			Cloth, Laminated, Cotton Nylon, Three-Ply Air Retaining, Chloroprene.	*	X	QM	QM		
MI-1-C-1400A(B)	27 March 1961			Cloth, Coated and Cloth, Laminated, Polychloroprene (for Radiologic Imaging Equipment).	-	X	CM	CM		
MI-1-P-2224B(B)	15 November 1961			Pipe and Pipe Fittings, Thermosetting Reinforced Plastic	X*	X	YD	*		
MI-1-C-22487	17 February 1960			Cloth, Laminated, Rubber on Nylon, Indistible Floor	*	X	WP	*		
MI-1-C-22070(1)	27 April 1962			Cloth, Laminated, and Tape, Coated-Cloth, Natural Rubber on Nylon.	X*	X	WP	*		
1-C-480	18 July 1955			Clasping Materials, Flexible Reinforced Plastic	*	-	CM	*		
1-C-89A	11 September 1958			Tape, Pressure-Sensitive Adhesive, Identification (Ablative Fiber).	*	-	QM	QM		
PPP-P-270	30 October 1958			Tape, Pressure-Sensitive Adhesive, Filament Reinforced	*	-	MOH	MOH		
1-P-805	9 December 1958			Plastic Sheet, Corrugated, Translucent, Clasping	*	-	CM	CM/ARD		
c	Miscellaneous			MI-1-W-1080B	8 September 1960	Water Tank, Laminated Plastic	*	X	CM	CM
				MI-1-H-1300A	21 March 1958	Resin, Anisole, Plastic, 16-11	*	X	CM	CM
				MI-1-P-1717A(B)	15 October 1958	Table Top, Plastic, Thermosetting Resin	*	X	NH	*
		MI-1-H-12864(B)	28 June 1958	Shells, Glass Fiber Reinforced for Torpedoes Mark 43 Models 1, 3, 5, and 4.	*	X	WP	*		
		MI-1-H-23199	1 June 1960	Helmet, Mollo's Reinforced Plastic, MKS MOD O	*	X	WP	WP		
		MI-1-P-22259	20 March 1962	Furniture, Metal Frame, Laminated Plastic Reinforced Panel Type (for MO's).	*	X	YD	*		
		MI-1-P-22265A	26 July 1960	Tank, Pneumatic Pressure, Aircraft, Glass Fiber	X*	X	ARD	ARD		
		MI-1-P-22265	12 April 1962	Tank, Pneumatic Pressure, Aircraft, Glass Fiber Sphere	*	X	ARD	ARD		
1-P-41A(1)	23 June 1954	Table Top Assembly (Plastic Thermosetting Resin Laminated).	*	-	MD	*				



## CODE IDENTIFICATION

### Preparing Activities and Custodians

<u>Code</u>	<u>Identification</u>
AFSC -----	Hq., Air Force Systems Command (AFSC)
ASD -----	Aeronautical Systems Division (AFSC)
CE -----	U.S. Army Corps of Engineers
CM -----	U.S. Army Chemical Corps
DAY -----	Dayton Air Force Depot AFLC (MDNS)
MD -----	U.S. Army Medical Service
MID -----	Middletown Air Material Area AFLC (MANT)
MOB -----	Mobile Air Material Area AFLC (MÖNH)
OR -----	U.S. Army Materiel Command (Formerly "Ordnance Corps")
QM -----	U.S. Army Quartermaster Corps
SA -----	U.S. Navy Bureau of Supplies and Accounts
SC -----	U.S. Army Signal Corps
BH -----	U.S. Navy Bureau of Ships
TC -----	U.S. Army Transportation Corps
WP -----	U.S. Navy Bureau of Weapons
YD -----	U.S. Navy Bureau of Yards and Docks

NUMERICAL LISTING OF SPECIFICATIONS CITED

Specification	Table	Part
MIL-M-14P	1	M
MIL-HDBK 17	1	M
MIL-HDBK 23	1	M
L-L-31	3	M
L-T-41A	6	U
MIL-P-78A	3	M
MIL-P-79C	3	K
PPP-T-97C	6	b
L-T-99A	6	b
MIL-D-121B	6	b
MIL-D-181C	6	b
MIL-A-140A	2	M
FWD-N'D-175	1	U
MIL-N'D-354	1	U
MIL-N'D-401A	1	U
FWD-N'D-408	1	U
L-C-428	6	b
L-P-508	6	b
MIL-N'D-870	1	U
MIL-N'D-872	1	b
MIL-C-878A	6	b
MIL-A-927A	2	M
MIL-P-927C	3	U
MIL-Y-1140C	2	d
MIL-P-8118C	3	f
MIL-C-8188A	2	b
MIL-I-8188C	6	M
MIL-H-8748	2	f
MIL-C-8787C	3	d
MIL-H-8888	6	b
MIL-P-8888A	3	b
MIL-T-8888C	2	U
MIL-A-008890C	2	M
MIL-A-8890D	2	M
MIL-C-8892H	6	b
MIL-P-8431	4	d
MIL-A-8488A	2	M
MIL-C-8488B	3	d
MIL-P-7084A	1	b
MIL-C-7488C	2	b
MIL-C-7488B	1	d
MIL-H-7878B	2	f
MIL-C-7707A	3	d
MIL-N-7811	6	M
MIL-N-7898	2	b
MIL-P-8078C	3	U
MIL-P-8089A	3	M
MIL-C-8078A	2	b
MIL-N'D-8078A	2	b
MIL-C-8087B	2	b
MIL-C-8682A	3	d
MIL-A-8628A	2	M
MIL-P-8688A	3	b
MIL-N-9041A	6	b
MIL-A-9087C	1	b
MIL-T-9071A	1	U
MIL-C-9074	6	b
MIL-C-9084B	2	d
MIL-P-9118A	2	d
MIL-H-9299A	2	f
MIL-R-9300A	2	f
MIL-P-9400A	1	b
MIL-W-10805	6	d
MIL-T-10852	6	b
MIL-C-11390B	6	b
MIL-P-12288	3	d
MIL-D-12288	3	b

Specification	Table	Part
MIL-P-13486A	4	f
MIL-D-13592A	6	U
MIL-P-13649B	3	M
MIL-A-14042	2	M
MIL-C-14088A	6	b
MIL-P-15088C	3	b
MIL-P-15087C	3	U
MIL-P-15047B	3	d
MIL-M-15017A	2	d
MIL-P-15017A	4	U
MIL-T-17171A	6	U
MIL-17410	6	U
MIL-P-17549C	3	U
MIL-P-17549B	3	U
MIL-H-17817	5	U
MIL-P-18087A	6	M
MIL-P-18177C	3	U
MIL-P-18241B	3	b
MIL-C-18848	2	b
MIL-P-18822A	6	M
MIL-P-19161A	1	U
MIL-I-19188A	6	M
MIL-P-19388A	4	U
MIL-N-19384B	6	U
MIL-I-19520A	6	M
MIL-I-19882H	6	M
MIL-C-19888A	2	d
MIL-M-19888	4	U
MIL-M-19887	4	U
MIL-R-19907C	1	d
MIL-I-19917	6	U
MIL-H-21040	2	b
MIL-C-21278A	2	b
MIL-M-21347A	4	U
MIL-A-21366	2	M
MIL-M-21556	4	M
MIL-I-21557A	6	M
MIL-R-21807	2	f
MIL-C-21720A	3	U
MIL-R-21931	2	f
MIL-M-22158	4	U
MIL-H-22199	6	U
MIL-P-22248	6	b
MIL-P-22324A	3	f
MIL-C-22427	6	b
MIL-I-22444	6	U
MIL-P-22608	6	U
MIL-I-22834A	6	M
MIL-C-22870	6	U
MIL-P-23239	6	U
MIL-R-25042A	2	f
MIL-T-25363A	6	U
MIL-P-25374A	3	M
MIL-N-25592	6	M
MIL-P-25998	3	U
MIL-P-26421A	3	U
MIL-A-26463	2	M
MIL-R-26508A	2	f
MIL-P-26515A	3	U
MIL-P-26518A	3	U
MIL-P-26770	3	d
MIL-C-26871A	3	d
MIL-27201	6	U
MIL-C-40008A	3	U
MIL-P-40038	2	f
MIL-P-43043	2	U
MIL-P-43090	4	M
MIL-P-43127(MR)	3	M
MIL-P-48040A	3	U
MIL-A-48081	2	M
MIL-A-52184	2	M
MIL-P-55071A	3	b

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AD \_\_\_\_\_ Accession No. \_\_\_\_\_

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DEFENSE SPECIFICATIONS AND STANDARDS FOR AND RELATING  
TO REINFORCED PLASTICS  
by Norman E. Beach

ENCLASIFIED  
1. Reinforced plastics -  
Specifications - Manual

PLASTEC Note 1, March 1961, 11 pp.  
Unclassified Report

This report presents the results of a search for Government specifications and standards which are for or related to reinforced plastics. The findings are listed in six tables, covering general specifications, reinforced, laminated, filled resins, sandwich construction, and applications. These have been given a simple organization, so that the reader may easily locate these specifications pertaining to his particular interest. The citations are current and complete. In addition to the number-date-title information, the reader can note whether there is a qualified products list issued for the specification.

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PLASTEC Report 10	A SURVEY OF FILAMENT WINDING: MATERIALS, DESIGN CRITERIA, MILITARY APPLICATIONS, by Allen M. Shibley, Harvey L. Peritt and Merrill Mig, May 1962	--
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