The Engineering Society For Advancing Mobility Land Sea Air and Space®
INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

SURFACE VEHICLE RECOMMENDED PRACTICE

Submitted for recognition as an American National Standard

SAE J1344 | REV. JUN95

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MARKING OF PLASTIC PARTS

1. Scope—This SAE Recommended Practice provides a system for marking plastic parts to designate the type of material from which the part was fabricated.

1.1 Purpose—The purpose of this document is to provide information to facilitate the:

a. Selection of materials and procedures for repairing and repainting plastic parts
b. Collection and handling of parts for subsequent recycling

2. References

2.1 Applicable Documents—The following publications form a part of this specification to the extent specified herein.

2.1.1 ISO PUBLICATIONS—Available from ANSI, 11 West 42nd Street, New York, NY 10036-8002.

ISO 1043—1—Plastics-Symbols-Part 1: Basic polymers and their special characteristics
ISO 1043—2—Plastics-Symbols-Part 2: Fillers and reinforcing materials
ISO 1629—Rubber and latices—Nomenclature
ISO 11469—Plastics—Generic identification and marking of plastic products

2.1.2 VDA STANDARDS—Available from DIN Deutsches, Institut fur Normung, Burggrafeng Strasse 6, Postfach 1107, D-1000 Berlin 30 Germany.

VDA 260—German Motor Vehicles—Marking of Parts of Polymeric Materials

2.2 Related Publications—The following publications are provided for information purposes only and are not a required part of this document.

2.2.1 ASTM PUBLICATIONS—Available from ASTM, 1916 Race Street, Philadelphia, PA 19103-1187.

ASTM D 1600—Standard Terminology Relating to Abbreviations, Acronyms, and Codes for Terms Relating to Plastics

3. Description

3.1 The system is based on standard symbols for terms relating to plastics published by the International Organization for Standardization (ISO 1043). Most commonly used symbols, including some not covered by ISO, are shown in Table 1. In addition, symbols for commercial plastic blends are shown in Table 2, and symbols for commonly used automotive fillers/reinforcements derived from ISO 1043-2 are shown in Table 3.

3.2 If additional symbols are required to cover new materials, the form in Appendix A shall be completed and submitted to SAE. New symbols will be included in the next revision to this document.

4. Use of Marking Symbols

4.1 In view of the wide variety of parts used in substantially different assembly situations, this document does not prescribe the location, and/or method of marking; however, the following guidelines should be followed:

4.1.1 Field service people should be informed regarding the material from which the part is made so suitable repair and paint procedures may be used.

4.1.2 Wherever practicable, the marking should be located where it may be observed while the part is in use. Consideration should be given to the use of multiple markings on large or complex shaped parts.

4.1.3 From the standpoint of field service people, marking on the outside surface of the part (in an unobtrusive location from the viewpoint of the owner) is preferred.

4.1.4 Markings applied with inks, dyes, or paints should not bleed, run, smudge, or stain other materials which may come in contact with the marking.

4.1.5 Marking should be designed to remain legible during the entire life of the part.

4.1.6 Markings which are molded into the part are preferred since they are permanent and do not require separate manufacturing operations as do those applied to the surface of the part after molding. Molded in markings should not create a stress concentration site which could result in premature cracking of the part.

4.1.7 The recommended practice for the standard marking symbol is as shown in Figure 1. Dimensions are suggested guidelines. Markings should be proportional to part size.

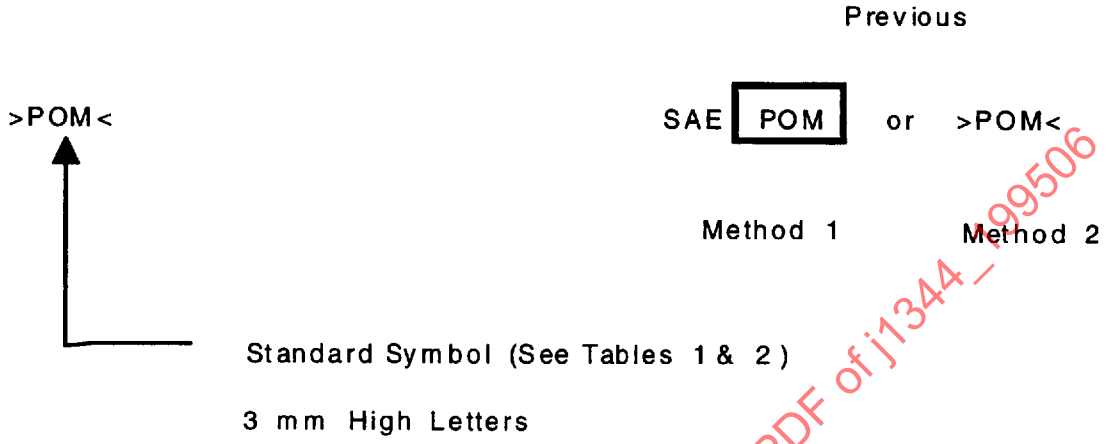
4.1.8 EXAMPLES—(See Figure 2)

4.2 For parts using plastic materials containing fillers/reinforcements in the amount of 10% and greater, the same designation shall be used for the "family name" as defined in Table 1 and, in addition, alpha codes from ISO 1043-2, followed by a numeric value representing the nominal percentage of filler/reinforcer. The polymer family codes shall be separated from the filler/reinforcement codes and value by use of a hyphen.

4.2.1 EXAMPLES—(See Figure 3)

4.3 Parts fabricated from two or more materials, some of which are not readily visible, may be marked so the primary visible material is identified first by the system specified in 3.1 followed by identification of the other material(s) where the individual identification(s) is separated by a comma. The main component by mass is identified by underlining.

4.3.1 EXAMPLES—For a product made of three components, the visible one is a thin coating of poly (vinyl chloride) over a polyurethane containing an insert of acrylo/nitrile/butadiene/styrene that is the major component by mass, see Figure 4.



(R) FIGURE 1—STANDARD MARKING SYMBOL

>PP<	Polypropylene
>PA66<	Poyamide 66
>ABS+PC<	Acrylonitrile/butadiene/styrene + Polycarbonate Blend

(R) FIGURE 2—EXAMPLES OF STANDARD MARKING SYMBOL

>PBT-GF30<	Polybutylene Terephthalate, 30 % Glass Fiber Reinforced
>PBT-(GF+MD)40<	
or	
>PBT-(GF15+MD25)<	Polybutylene Terephthalate, 15 % Glass Fiber + 25 % Mineral Reinforced

(R) FIGURE 3—EXAMPLES OF STANDARD MARKING SYMBOLS FOR REINFORCED PLASTICS

>PVC,PUR,ABS<

(R) FIGURE 4—EXAMPLES OF STANDARD MARKING SYMBOLS FOR COMPOSITE PARTS

5. *Notes*

5.1 Additional Information—Appendices C, D, and E are cross reference listings designed to assist the user in relating SAE marking symbols to SPI/PBI container codes as well as common plastic names and supplier trademarks. Appendix F references symbols for elastomers, based on ISO 1629, with potential use in plastic blends.

5.2 Marginal Indicia—The (R) is for the convenience of the user in locating areas where technical revisions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

PREPARED BY THE SAE PLASTICS COMMITTEE

TABLE 1—SYMBOLS FOR MARKING PLASTIC PARTS

	Plastic "Family" Name	Common Name	Standard Symbol	(Previous)[1]
	Acrylonitrile/butadiene		AB	
	Acrylonitrile/butadiene/acrylate		ABA	
	Acrylonitrile/butadiene/styrene		ABS	
	Acrylonitrile/ethylene/styrene		AES	
	Acrylonitrile/methyl/methacrylate		AMMA	
	Acrylonitrile/styrene/acrylate		ASA	
	Carboxymethyl cellulose		CMC	
	Casein		CS	
	Cellulose acetate		CA	
	Cellulose acetate butyrate		CAB	
	Cellulose acetate propionate		CAP	
	Cellulose formaldehyde		CF	
	Cellulose nitrate		CN	
	Cellulose propionate		CP	
	Cellulose triacetate		CTA	
	Chlorinated polyethylene		CPE	
	Chlorinated poly (vinyl chloride)		CPVC	
	Epoxide; Epoxy		EP	
	Ethyl cellulose		EC	
	Ethylene/ethyl/acrylate		EEA	
	Ethylene/methacrylic acid		EMA	
	Ethylene/propylene/diene		EPDM	
	Ethylene/tetrafluoroethylene		ETFE	
	Ethylene/vinyl acetate		E/VAC	(EVA)(EVAC)
	Furan formaldehyde		FF	
	Melamine-formaldehyde		MF	
	Perfluoro (ethylene/propylene): Tetrafluoroethylene/ hexafluoropropylene		FEP	
	Phenol-formaldehyde		PF	
	Phenol-furfural		PFF	
	Polyamide	Nylon	PA	
	6 Polyamide		PA6	
	66 Polyamide		PA66	
	46 Polyamide		PA46	
	69 Polyamide		PA69	
	11 Polyamide		PA11	
	12 Polyamide		PA12	
	610 Polyamide		PA610	
	612 Polyamide		PA612	
(R)	Polyamide copolymers based on terephthalic acid, hexamethylenediamine, and 2-methylpentemethylenediamine		PA6T/MPMD	
	Polyamide-imide		PAI	
	Polyacrylonitrile		PAN	
	Polyarylamid (polyaramide)		PARA	
	Polyarylether		PAE	
	Polyaryletherkeone		PAEK	
	Polyarylsulfone		PAS	(PASU)
	Polybutene-1		PB	
	Polycarbonate plastics		PC	
	Polychlorotrifluoroethylene		PCTFE	
	Poly (diallyl phthalate)		PDAP	(DAP)
	Polydicyclopentadiene		PDCPD	
	Polyester, thermoplastic:			
	Polyarylate (polyarylterephthalate)		PAT	
(R)	Liquid Crystal Polymer: Copolyester (polyarylterephthalate		LCP	(ARP)
	Polybutylene terephthalate		PBT	

TABLE 1—SYMBOLS FOR MARKING PLASTIC PARTS (CONTINUED)

	Plastic "Family" Name	Common Name	Standard Symbol	(Previous)[1]
(R)	Polycyclohexylene terephthalate (poly [1,4 cyclohexylene dimethylene terephthalate])		PCT	
	Polyether block amide		PEBA	
	Polyethylene terephthalate		PET	
	Polyester, thermoset (unsaturated)	SMC, BMC, TMC	UP	
	Polyetherimide		PEI	
	Polyetherketone		PEK	
	Polyether-etherketone		PEEK	
	Polyethersulfone		PES	(PESU)
	Polyethylene		PE	
	Linear Low Density		PE-LLD	(LLDPE)
	Low Density		PE-LD	(LDPE)
	Linear Medium Density		PE-LMD	(LMDPE)
	Medium Density		PE-MD	(MDPE)
	High Density		PE-HD	(HDPE)
	Ultra-high molecular weight		PE-UHMW	
	Poly (ethylene oxide)		PEOX	(PEO)
	Perfluoroalkoxylalkane		PFA	
	Polyimide		PI	
	Polyimidesulfone		PIS	(PISU)
	Polyisobuthylene		PIB	
	Poly (methyl methacrylate)	Acrylic	PMMA	
	Poly (methyl methacrylate imide)		PMMI	
	Poly (4-methylpentene-1)		PMP	
	Poly (p-oxybenzoate)		POB	
	Polyoxymethylene; polyformaldehyde	Acetal	POM	
	Polyphenylene ether		PPE	(POP)
	Polypropylene		PP	
	Polystyrene		PS	
	Polysulfone		PSU	
	Poly (phthalamide)		PPA	
	Poly (propylene oxide)		PPOX	
	Poly (phenylene sulfide)		PPS	
	Poly (phenylene sulfone)		PPSU	
	Polytetrafluoroethylene		PTFE	
	Polyurethane, thermoset (unsaturated)		PUR	
	Poly (vinyl acetate)		PVAC	
	Poly (vinyl alcohol)		PVAL	
	Poly (vinyl butyral)		PVB	
	Polyvinylcarbazole		PVK	
	Poly (vinyl chloride)		PVC	
	Poly (vinyl chloride acetate)		PVCA	
	Poly (vinyl fluoride)		PVF	
	Poly (vinyl formal)		PVFM	
	Poly (vinylidene chloride)		PVDC	
	Poly (vinylidene fluoride)		PVDF	
	Polyvinylpyrrolidone		PVP	
	Silicone		SI	
	Styrene/acrylonitrile		SAN	
	Styrene/butadiene		SB	
	Styrene/maleic anhydride plastics		SMA	(S/MA)
	Styrene/a-methylstyrene		SMS	
	Thermoplastic Elastomers:			
	Polyether block amide		PEBA	
	Polyolefinic		TEO	(TPO)(E/P)
	Ether ester block copolymer		TEEE	(EEBC)

TABLE 1—SYMBOLS FOR MARKING PLASTIC PARTS (CONTINUED)

	Plastic "Family" Name	Common Name	Standard Symbol	(Previous)[1]
(R)	Polyurethane		TPU	(TPUR)(RTPU)
	Styrene block copolymer		TES	(SEBS)
	Urea-formaldehyde		UF	
	Vinyl chloride/ethylene		VCE	
	Vinyl chloride/ethylene/methyl acrylate		VCEMA	
	Vinyl chloride/methyl acrylate		VCMA	
	Vinyl chloride/vinyl acetate		VCVAC	
	Vinyl chloride/vinylidene chloride		VCVDC	

Note[1] Previous—SAE J1344 or other commonly used marking symbols

Note a—Common names and trademarks for each plastic "family" name are shown in Appendix "C", and are intended as a guide to aid the user in selecting the correct standard symbol for the material under consideration.

Note b—Symbols listed as ("PREVIOUS SYMBOLS") are former designations and should not be used on new parts. Intent of this is that changes are to be implemented on new or redesigned parts.

TABLE 2—SYMBOLS FOR COMMERCIAL BLENDS

	Commercial Blends[1]	Standard Symbol	(Previous)
	Acrylonitrile/butadiene/styrene + polyamide	ABS+PA	
	Acrylonitrile/butadiene/styrene + polycarbonate	ABS+PC	
	Acrylonitrile/butadiene/styrene + polyphenylene sulfone	ABS+PPSU	
	Acrylonitrile/butadiene/styrene + polytetrafluoroethylene	ABS+PTFE	
	Acrylonitrile/butadiene/styrene + polyvinyl chloride	ABS+PVC	
	Acrylonitrile/butadiene/styrene + styrene maleic anhydride	ABS+SMA	(ABS+S/MA)
(R)	Acrylonitrile/butadiene/styrene + thermoplastic polyurethane	ABS+TPU	(ABS+TPUR)
	Acrylonitrile/styrene/acrylate + polycarbonate	ASA+PC	
	Acrylonitrile/styrene/acrylate + polymethyl methacrylate	ASA+PMMA	
	Acrylonitrile/styrene/acrylate + polyvinyl chloride	ASA+PVC	
	Polyamide + ethylene methacrylic acid (ionomer)	PA+EMA	
	Polyamide (amorphous) blend	PA+	
	Polyamide + polyethylene	PA+PE	
	Polyamide + styrene/acrylonitrile	PA+SAN	
	Polycarbonate + polybutylene terephthalate	PC+PBT	
	Polycarbonate + polyethylene terephthalate	PC+PET	
	Polycarbonate + polybutylene	PC+PE	
(R)	Polycarbonate + polycyclohexylene terephthalate	PC+PCT	
	Polycarbonate + styrene maleic anhydride	PC+SMA	(PC+S/MA)
(R)	Polycarbonate + thermoplastic polyurethane	PC+TPU	(PC+TPUR)
(R)	Polybutylene terephthalate + acrylonitrile/styrene/acrylate	PBT+ASA	
	Polybutylene terephthalate + polyethylene terephthalate	PBT+PET	
	Polybutylene terephthalate + polyphenylene ether	PBT+PPE	
	Polyethylene terephthalate + polymethyl methacrylate	PET+PMMA	
	Polyethylene terephthalate + polyphenylene sulfone	PET+PPSU	
	Polyoxymethylene + polytetrafluoroethylene	POM+PTFE	
	Polyphenylene ether + polyamide	PPE+PA	(PA+PPE)
	Polyphenylene ether + high impact polystyrene	PPE+PS	
	Polyphenylene sulfide + polytetra-fluoroethylene	PPS+PTFE	
	Polypropylene + ethylene/propylene/diene	PP+EPDM	
	Polysulfone + acrylonitrile/butradiene/styrene	PSU + ABS	
	Polysulfone + polycarbonate	PSU + PC	
	Polysulfone + polyethyleneterephthalate	PSU + PET	
	Polyvinyl chloride + chlorinated polyethylene	PVC+CPE	
	Polyvinyl chloride + nitrile butadiene rubber	PVC+NBR	
	Polyvinyl chloride + polymethyl methacrylate	PVC+PMMA	
	Polyvinyl chloride + polyurethane	PVC+PUR	(PVC+PU)
	Styrene/maleic anhydride + high impact polystyrene	SMA+PS	(S/MA+PS)

[1] Commercial mixtures/blends (alloys) of plastic resins.

TABLE 3—SYMBOLS FOR FILLERS AND REINFORCING MATERIALS

	Fillers and Reinforcing Materials	Standard Symbol
	Glass spheres	GB
	Glass fiber	GF
	Glass fiber/mineral[1]	(GF+M)*
	Glass fiber/mica[2]	(GF+P)*
	Glass mat	GM
	Carbon, graphite	C
	Carbon fibers	CF
	Aramid fibers	RF
	Mineral[1]	M
	Clay[2]	E
	Calcium carbonate[2] powder	KD
(R)	Mica[2]	P
(R)	Talc powder	TD
	Wood powder	WD

* Mixtures of fillers may be shown in parentheses by combining the relevant symbols with the sign "+".

(R) 1 The "mineral" designation indicated here is generic, i.e., the type of mineral used as a filler is unknown.

(R) 2 When specific minerals are used as fillers, such as clay, calcium carbonate, mica, talc, etc., the precise symbol should be used. The form of the "mineral" should also be identified when available, e.g., beads (B); powder (D); fiber (F); whiskers (H); flake (S), yarn (Y).

Additional symbols for fillers and their form/structure are listed in ISO 1043-2.

APPENDIX A
REQUEST TO ADD NEW MARKING SYMBOLS AND/OR TRADEMARKS

A.1 The following procedure is to be utilized to apply for inclusion of new marking symbols and/or trademarks into SAE J1344.

A.1.1 Complete Figure A1:

- Plastic or Plastic Blend "Family" Name: _____

_____

(Check One)

- Proposed Marking Symbol: New Symbol _____ Existing _____
- Supplier's Trademark (If any): _____
- Supplier: _____
- Name of Submitter: _____
- Telephone Number: ( )
- Date Submitted: _____
- Signature: _____

Mail This Form To:

SAE
Land & Sea Technical Division
Materials Staff Engineer
400 Commonwealth Drive
Warrendale, PA 15096-0001

Note—The procedure shown in Appendix B will be used to process requests for the addition of new symbols only. Requests to add trademarks to cross reference listings will be handled as editorial changes.

FIGURE A1—REQUEST FORM TO ADD NEW MARKING SYMBOLS AND/OR TRADEMARKS

APPENDIX B
PROCESS FLOW CHART—ADDING NEW SYMBOLS TO J1344

B.1 See Figure B1.

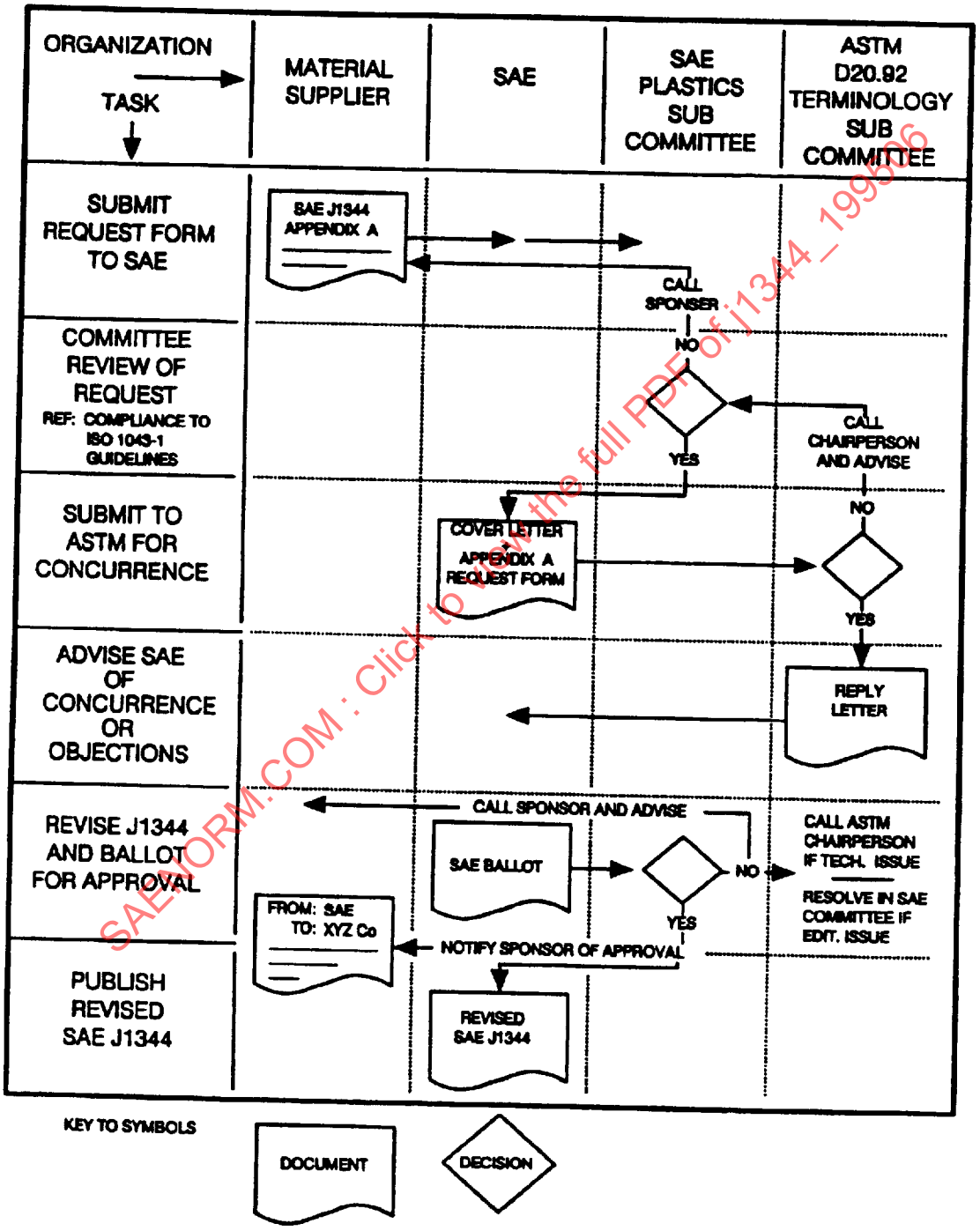


FIGURE B1—PROCESS FLOW CHART—ADDING NEW SYMBOLS TO J1344

APPENDIX C
CROSS REFERENCE SYMBOLS TO COMMON NAMES/TRADEMARKS

C.1 See Table C1.

TABLE C1—CROSS REFERENCE SYMBOLS TO COMMON NAMES/TRADEMARKS

	Standard Symbol	Previous	Example of Common Names and/or Trademarks
	AB		--
	ABA		--
	ABS		ABS, Absafil, Cycolac, Cadon, Lustran, Novodur, Magnum, Terluan, Elemid
	ABS+PA		Triax 1000
(R)	ABS+PC		Bayblend, Cycoloy, Proloy, Pulse, Triax
	ABS+PTFE		Thermocomp AL
	ABS+PVC		Cycovin K, Kralastic FVM, Lustran
	ABS+SMA	(ABS+S/MA)	Cadon
(R)	ABS+TPU	(ABS+TPUR)	Cycoloy, Estane, Pellethane, Prevail
	AES		Rovel
	AMMA		--
	ASA		Luran S, Centrex
(R)	ASA+PC		Geloy, Terblend S
	ASA+PMMA		Geloy 1320
	ASA+PVC		Geloy 1200
	CMC		--
	CS		--
	CA		Ampol, Cellidor, Ethocel, Tenite
	CAB		Ethocel, Tenite, Uvex
	CAP		Cellidor, Ethocel, Tenite
	CN		Nitrocellulose
	CP		Cellidor, Ethocel, Tenite
	CPE		Penton, Thermo, Tyrin
	CPVC		--
	CP		--
	CTA		--
	EC		Ethocel
	EP		Araldrite, Crovel, Epon, Epotuf
	EEA		--
	EMA		Ionomer, Formion, Surlyn
	ETFE		--
	E/VAC	(EVAC)	Elvax, Microthane
	FCEA		--
	FEP		Fluorocomp, Teflon
	FF		--
(R)	LCP	(APR)	Vectra, Xydar
	MF		Cymel, Diaron, Isomin, Melmac
	PA+EMA		Nycoa 1900
	PA+PE		Selar
	PA+SAN		N5
	PA6		Nylon 6, Akulon, Ashlene, Capron, Fiberod, Maranyl, Nydur, Nykon, Nylatron, Nypel, Texalon, Thermocopm, Ultramid, Wellamid
	PA66		Nylon 66, Akulon, Ashlene, Fiberod, Maranyl, Minlon, Nylafil, Nylatron, Texalon, Technyl, Ultramid, Vydyne, Wellamid, Zytel
	PA46		Nylon 46, Stanyl
	PA69		Nylon 69, Vydyne
	PA11		Nylon 11, NH, N8, Rilsan, RTP, Thermocomp

TALE C1—CROSS REFERENCE SYMBOLS TO COMMON NAMES/TRADEMARKS (CONTINUED)

	Standard Symbol	Previous	Example of Common Names and/or Trademarks
	PA12		Nylon 12, Grilamid, Nylafil, Rilsan, Rimplast, Thermocomp, Vestamid
	PA610		Nylon 610, Hiloy, Maranyl, Nylafil, RTP
	PA612		Nylon 612, Grilon, N6, Nylafil, Nylatron, Rilsan, Vestamid, Zytel
(R)	PA6T/MPMD		Polyamide copolymer based on terephthalic acid, hexamethylenediamine, and 2-methylpantamethylenediamine, Zytel HTN
	PAE		--
	PAEK		Kadel, Ultrapec
	PAI		Torlon
(R)	PARA		Aramid
	PAS	(PASU)	Astrel, Radel
	PAT		Apec, Ardel, Arylon, Durel, Econol
	PB		Duraflex
(R)	PBT		Celanex, Petra, Pocan, Rynite, Ultradur, Valox, Vandar, Wellite
(R)	PBT+ASA		Ultrablend
	PBT+PET		Bexloy K & J, Celanex, Valox
	PBT+PPE		Gemax
	PC		Calibre, Lexan, Merlon, Macrolon
	PC+PBT		Macroblend, Sabre, Valox, Xenoy
(R)	PC+PCT		Ektar MB
	PC+PE		Lexan, Merlon T
(R)	PC+PET		Ektar MB, Macroblend, Sabre, Valox
	PC+SMA	(PC+S/MA)	Arloy
(R)	PC+TPU	(PC+TPUR)	Texin
(R)	PCT		Ektar
	PCTFE		Aclar, Halon, Kel-F
	PDAP	(DAP)	Dapon, Durex, Poly-Dap
	PDCPD		Metton LMR, Telene
	PE-HD	(HDPE)	Alathon, Bakelite, Chevron HiD, Dowlex, Empee, Fortiflex, Hi-Fax, Hostalen, Lupolen, Marlex, Paxon, Petrothene, Polyfort, Vestolen
	PE-LD	(LDPE)	Alathon, Bakelite, Dowlex, Empee, Esocrene Fortiflex, Petrothene, Rexane
	PE-LLD	(LLDPE)	Alathon, Bakelite, Esocrene, Fortiflex, Petrothene
	PE-LMD	(LMDPE)	--
	PE-MD	(MDPE)	Bakelite, Dowlex, Esocrene, Fortiflex, Marlex, Petrothene
(R)	PEBA		Dynyl, Estamid(ester), Pebax, Vestamid
	PEEK		Victrex PEEK
	PEI		Ultem
	PEK		Victrex PEK
	PEOX	(PEO)	Hostalen
	PES	(PESU)	Ultrason, Radel A, Victrex PES
	PET		Hostadur, Impet, Petlon, Petra, Rynite, Ultradur, Valox, Wellpet
	PET+PMMA		Ropet
	PF		Phenolic, Durez, Plenco
	PFF		--
	PI		Envex, Gemon, Kinel, Pyralin, Skybond, Vespel
	PIB		Oppanol B
	PIS	(PISU)	PISO
	PMMA		Acrylic, Acrylite, Crolite, Diakon, Oroglas, Plexiglas, XT Polymer, Vedril
	PMMI		Kamax
	PMP		TPX
	POB		Ekkcel
	POM		Acetal, Celcon, Delrin, Hostaform, Ultraform
	POM+PTFE		Delrin AF, Thermocomp KL
(R)	PP		Adpro, Astryn, Azdel, Daplen, Ektar FB, Escorene, Hifax, Hostacom, Hostalen, Marlex, Moplen, Mytex, Novolen, Oleflo, Polyfort, Pro-fax, Tenite
(R)	PPA		Amodel, Ultramid T

TALE C1—CROSS REFERENCE SYMBOLS TO COMMON NAMES/TRADEMARKS (CONTINUED)

	Standard Symbol	Previous	Example of Common Names and/or Trademarks
	PPE	(POP)	Noryl, Prevex (see BLENDS, Table 2)
	PPE+PA	(PA+PPE)	Noryl GTX
	PPE+PS		Noryl, Prevex
	PPOX		--
	PPS		Fortron, Ryton, Supec
	PPS+PTFE		Alton, Polycomp
	PPSU		Udel, Radel R, Ultrason
	PS		Dylene, Durathon, Lustrex, Polystyrol, Stryon, Tuf-Flex, Styron
	PSU		Udel
	PSU+ABS		Mindel A
	PSU+PC		Mindel S
	PSU+PET		Mindel B
	PTFE		Fluon, Halon, Hostaflon, Teflon, Tetran
	PUR		Adiprane, Bayflex, Casthetane, Cyanaprene, Desmopan, Spectrim
	PVAC		Gelva, Vinylite
	PVAL		Evanol, Gelvatol
	PVB		Butvar, Vinylite, Butacite
	PVC		Apex, Geon, Gracon, Pliovic, Polyvin, Unichem, Trosiplast, Vinoflex
	PVC+CPE		Hostalite Z
	PVC+NBR		Hycar, Paracil, Ozo, Vynite
	PVC+PUR		DKE+450, Kydex
	PVCA	(PVC+PU)	Vythene
	PVF		--
	PVFM		Tedlar
	PVDC		Formvar
	PVDF		Saran
	PVK		Kynar
	PVP		Luvican
	SI		--
	SAN		--
	SB		Forsacryl, Lustran, Luran, Tyril
	SMA	(S/MA)	Andrex, Cadon, Dylark, Elexar, K-Resins, Pliolite, Polystyrel, Stapron, Styrolux
	SMA+PS	(S/MA+PS)	Cadon (see BLENDS, Table 2)
	TPES		Thermoplastic Polyester
	TEO	(TPO)(E/P)	Ektar, Ferroflex, Moplen, Polytrope, Prolastomer, Renflex, Salflex, Sarlink, Santoprene, Sarlink 2000, Sarlink 3000, Telcar, Trefsin, Vistaflex, Vyram
	TEEE	(EEBC)	Hytrel, Lomod, Riteflex BP, TEP
(R)	TPU	(TPUR)(RTPU)	Bayflex, Cytor, Estane, Orthane, Peilathane, Polypur, Texin, Isoplast
	TES	(SEBS)	Elexar, Kraton
	UF		Plaskon, Skanopal
	UP		BMC, SMC, XMC, Derakene, Premi-Glas, Selectron, Vibrin-Mat
	VCE		--
	VCEMA		--
	VCMA		--

[1] The trademarks listed are intended as a guide to aid the user in selecting the correct standard SAE symbol for the material under consideration. It is not intended or implied that the listing is a material approved for any given specification or application nor is the listing complete for any one plastic "family" name since additional materials may be available which are not marketed under a trademark.

APPENDIX D
CROSS REFERENCE LIST
SPI/PBI PLASTIC CONTAINER MARKING CODES
TO
SAE PART MARKING SYMBOLS

D.1 See Figure D1.

MATERIAL	SPI/PBI CODE	SAE CODE
POLYETHYLENE TEREPHTHALATE	1 PETE	> PET <
HIGH DENSITY POLYETHYLENE	2 HDPE	> PE-HD <
POLYVINYL CHLORIDE	3 V	> PVC <
LOW DENSITY POLYETHYLENE	4 LPDE	> PE-LD <
POLYPROPYLENE	5 PP	> PP <
POLYSTYRENE	6 PS	> PS <
ALL OTHER RESINS	7 OTHER	SEE TABLES 1 & 2

NOTE: SPI - THE SOCIETY OF THE PLASTICS INDUSTRY, INC
PBI - PLASTIC BOTTLE INSTITUTE

FIGURE D1 - CROSS REFERENCE LIST SPI/PBI PLASTIC CONTAINER MARKING CODES TO SAE PART MARKING SYMBOLS

APPENDIX E
CROSS REFERENCE LISTING OF TRADEMARKS

Table E1 is intended to assist in the crossreferencing of trademarks as listed in Table C1 to their suppliers.

TABLE E1—CROSS REFERENCE LISTING—TRADEMARKS/SUPPLIERS

	Trademarks	Supplier	Symbol	Plastic "Family" Name
	ACETAL	GENERIC NAME	POM	POLYOXYMETHYLENE: POLYFORMALDEHYDE —"ACETAL"
	ACLAR	AUSIMONT	PCTFE	POLYCHLOROTRIFLUORO-ETHYLENE
	ACRYLITE	CYRO INDUSTRIES	PMMA	POLY (METHYL METHACRYLATE)—"ACRYLIC"
	ADIPRANE	UNIROYAL INC.	PUR	POLYURETHANE, THERMOSET (UNSATURATED)
(R)	ADPRO	GENESIS POLYMERS	PP	POLYPROPYLENE
	AKULON	A. SCHULMAN INC.	P6, PA66	POLYAMIDE 6 & 66—"NYLON 6 & 66"
	ALATHON	DUPONT DE NEMOURS & CO.	PE-LD, PE-HD, PE-LLD	POLYETHYLENE, LOW, HIGH, LINEAR LOW DENSITY
	ALTON	INTERNATIONAL POLYMERS	PPS+PTFE	POLYPHENYLENE SULFIDE + POLYTETRA FLUORETHYLENE
	AMODEL	AMOCO CHEMICAL CORP	PPA	POLY PHTHALAMIDE
	AMPOL	AMERICAN POLYMERS INC	CA	CELLULOSE ACETATE
	ANDREZ	UNKNOWN	SB	STYRENE-BUTADIENE
(R)	APEC	BAYER	PAT	POLYARYLATE -POLYESTER, THERMOPLASTIC
	APEX	TEKNOR APEX CO.	PVC	POLY (VINYL CHLORIDE)
	ARALDRITE	CIBA-GEIGY CORP.	EP	EPOXIDE: EPOXY
	ARDEL	AMOCO CHEMICAL CORP	PAT	POLYARYLATE -POLYESTER, THERMOPLASTIC
	ARLOY	ARCO CHEMICAL CO	PC+SMA	POLYCARBONTE + STYRENE MALEIC ANHYDRIDE
	ARYLON	DUPONT DE NEMOURS & CO.	PAT	POLYARYLATE -POLYESTER, THERMOPLASTIC
	ASHLENE	ASHLEY POLYMERS	PA6, PA66	POLYAMIDE 6 & 66—"NYLON 6 & 66"
	ASTREL	AMOCO CHEMICAL CORP.	PAS	POLYARYLSULFONE
(R)	ASTRYN	HIMONT	PP	POLYPROPYLENE
	AZDEL	AZDEL INC.	PP	POLYPROPYLENE
	BAKELITE	UNION CARBIDE CORP.	PE-LD, PE-MD, PE-HD	POLYETHYLENE, LOW, MEDIUM, HIGH DENSITY
	BAKELITE	UNION CARBIDE CORP.	PF	PHENOL-FORMALDEHYDE
	BAKELITE	UNION CARBIDE CORP.	PE-LLD	POLYETHYLENE, LINEAR LOW DENSITY
(R)	BAYBLEND	BAYER	ABS+PC	ACRYLONITRILE/BUTADIENE/STYRENE + POLYCARBONATE
(R)	BAYFLEX	BAYER	PUR	POLYURETHANE, THERMOSET
(R)	BAYFLEX	BAYER	TPU	POLYURETHANE THERMOPLASTIC ELASTOMER

TABLE E1—CROSS REFERENCE LISTING—TRADEMARKS/SUPPLIERS (CONTINUED)

	Trademarks	Supplier	Symbol	Plastic "Family" Name
	BEXLOY K & J	DUPONT DE NEMOURS & CO	PBT+PET	POLYBUTYLENE TEREPHTHALATE + POLYETHYLENE TEREPHTHALATE
	BUTACITE	DUPONT DE NEMOURS & CO.	PVB	POLY (VINYL BUTYRAL)
	BUTVAR	MONSANTO CO.	PVB	POLY (VINYL BUTYRAL)
	CADON	MONSANTO CO.	ABS	ACRYLONITRILE/BUTADIENE/ STYRENE
	CADON	MONSANTO CO.	ABS+SMA	ACRYLONITRILE/BUTADIENE/ STYRENE + STYRENE MALEIC ANHYDRIDE
	CADON	MONSANTO CO.	SMAH	STYRENE MALEIC ANHYDRIDE
	CALIBRE	DOW CHEMICAL CO.	PC	POLYCARBONATE
	CAPRON	ALLIED ENGINEERED	PA6	POLYAMIDE 6—"NYLON 6"
	CASTETHANE	DOW CHEMICAL CO.	PUR	POLYURETHANE, THERMOSET
	CELANESE	HOECHST CELANESE	PA66	POLYAMIDE 66—"NYLON 66"
	CELANEX	HOECHST CELANESE	PBT	POLYBUTYLENE TEREPHTHALATE
	CELANEX	HOECHST CELANESE	PBT+PET	POLYBUTHYLENE TEREPHTHALATE + POLYETHYLENE TEREPHTHALATE
	CELCON	HOECHST CELANESE	POM	POLYOXYMETHYLENE: POLYFORMALDEHYDE — "ACETAL"
	CELLIDOR	BAYER AG	CA	CELLULOSE ACETATE
	CELLIDOR	BAYER AG	CAP	CELLULOSE ACETATE PROPIONATE
	CELLIDOR	BAYER AG	CP	CELLULOSE PROPIONATE
	CENTREX	MONSANTO CO.	ASA	ACRYLONITRILE/STYRENE/ ACRYLATE
	CHEVRON H.D	CHEVRON CHEMICAL CO.	PE-HD	POLYETHYLENE, HIGH DENSITY
	CORVEL	POLYMER CORP.	EP	EPOXIDE
	CYANAPRENE	AMERICAN CYANAMID CO.	PUR	POLYURETHANE, THERMOSET (UNSATURATED)
	CYCOLOY	GENERAL ELECTRIC CO.	ABS	ACRYLONITRILE/BUTADIENE/ STYRENE
(R)	CYCOLOY	GENERAL ELECTRIC CO.	ABS+TPU	ACRYLONITRILE/BUTADIENE/ STYRENE + THERMOPLASTIC POLYURETHANE
	CYCOLOY EHA	GENERAL ELECTRIC CO.	ABS+PC	ACRYLONITRILE/BUTADIENE/ STYRENE + POLYCARBONATE
	CYCOVIN K	GENERAL ELECTRIC CO.	ABS+PVC	ACRYLONITRILE/BUTADIENE/ STYRENE + POLYVINYL CHLORIDE
	CYMEL	AMERICAN CYANAMID CO.	MD	MELAMINE-FORMALDEHYDE
	CRYOLITE	CYRO INDUSTRIES	PMMA	POLY (METHYL METHACRYLATE) - "ACRYLIC"
(R)	CYTOR	UNKNOWN	TPU	POLYURETHANE, THERMOPLASTIC
	DAPLEN	CHEMIE LINZ AG	PP	POLYPROPYLENE
	DAPON	CHEMIE LINZ AG	PDAP	POLY (DIALLYL PHTHALATE)

TABLE E1—CROSS REFERENCE LISTING—TRADEMARKS/SUPPLIERS (CONTINUED)

	Trademarks	Supplier	Symbol	Plastic "Family" Name
	DELRIN	DUPONT DE NEMOURS & CO.	POM	POLYOXYMETHYLENE: POLYFORMALDEHYDE — "ACETAL"
	DELRIN AF	DUPONT DE NEMOURS & CO.	POM+PTFE	POLYOXYMETHYLENE + POLYTETRA FLUORETHYLENE
	DERAKANE	DOW CHEMICAL CO.	UP	POLYESTER, THERMOSET (UNSATURATED)
	DESMOPAN	BAYER	PUR	POLYURETHANE, THERMOSET (UNSATURATED)
	DIAKON	ICI HYDE GROUP	PMMA	POLY (METHYL METHACRYLATE)—"ACRYLIC"
	DIARON	REICHOLD CHEMICALS INC.	MF	MELAMINE-FORMALDEHYDE
	DKE+450	SUMITOMO CORP.OF AMERICA	PVC+PMMA	POLYVINYL CHLORIDE + POLYMETHYL METHACRYLATE
	DOWLEX	DOW CHEMICAL CO.	PE-LD, PE-MD, PE-HD	POLYETHYLENE: LOW, MEDIUM, HIGH DENSITY
	DURAFLEX	SHELL CHEMICAL CO.	PB	POLYBUTENE-1
	DURATHON	BAYER	PS	POLYSTYRENE
	DUREL	HOECHST CELANESE	PAT	POLYARYLATE - THERMOPLASTIC POLYESTER
(R)	DURETHAN	BAYER	PA6, PA66	POLYAMIDE 6 & 66—"NYLON 6 & 66"
	DUREZ	OCCIDENTAL CHEMICAL	PDAP	POLY (DIALLYL PHTHALATE)
	DUREZ	OCCIDENTAL CHEMICAL	PF	PHENOL-FORMALDEHYDE
	DURILITE	UNKNOWN	EC	ETHYL CELLULOSE
	DYLARK	ARCO CHEMICAL CO.	SMA	STYRENE MALEIC ANHYDRIDE
	DYLENE	ARCO CHEMICAL CO.	PS	POLYSTYRENE
	DYNYL	RHONE POULENC INC.	PEBA	POLYETHER BLOCK AMIDE, THERMOPLASTIC ELASTOMER
	ECONOL	SOHIO CHEMICAL CO.	PAT	POLYARYLATE - THERMOPLASTIC POLYESTER
	EKKCEL	CARBORUNDUM CO.	POB	POLY-P-OXYBENZOATE
(R)	EKTAR	EASTMAN CHEMICAL	PCT	POLYCYCLOHEXYLENE TEREPHTHALATE
(R)	EKTAR	EASTMAN CHEMICAL	TEO	THERMOPLASTIC POLYOLEFIN ELASTOMER
(R)	EKTAR FB	EASTMAN CHEMICAL, INC	PET	POLY (ETHYLENE TEREPTHALATE)
(R)	EKTAR FB	EASTMAN CHEMICAL, INC	PP	POLYPROPYLENE
(R)	EKTAR MB	EASTMAN CHEMICAL, INC	PC+PCT	POLYCARBONATE + POLYCYCLOHEXYLENE TEREPHTHALATE
(R)	EKTAR MB	EASTMAN CHEMICAL, INC	PC+PET	POLYCARBONATE + POLYETHYLENE TEREPHTHALATE
	ELEMID	GENERAL ELECTRIC CO.	ABS+PA	ACRYLONITRILE/BUTADIENE/ STYRENE + POLYAMIDE
	ELEXAR	SHELL CHEMICAL CO.	SB	STYRENE-BUTADIENE
	ELEXAR	SHELL CHEMICAL CO.	TES	THERMOPLASTIC ELASTOMER —STYRENE BLOCK COPOLYMER

TABLE E1—CROSS REFERENCE LISTING—TRADEMARKS/SUPPLIERS (CONTINUED)

	Trademarks	Supplier	Symbol	Plastic "Family" Name
	ELVAX	DUPONT DE NEMOURS & CO.	EVAC	ETHYLENE/VINYL ACETATE
	EMPEE	MONMOUTH PLASTICS INC.	PE-LD, PE-MD	POLYETHYLENE, LOW, MEDIUM DENSITY
	ENVEX	ROGERS CORP.	PI	POLYIMIDE
	EPON	SHELL CHEMICAL CO.	EP	EPOXIDE: EPOXY
	EPOTUF	REICHOLD CHEMICALS INC.	EP	EPOXIDE: EPOXY
	ESCORENE	EXXON CHEMICAL AMERICAS	PE-LD, PE-LLD, PE-MD	POLYETHYLENE: LOW, LINEAR LOW, MEDIUM DENSITY
	ESCORENE	EXXON CHEMICAL AMERICAS	PP	POLYPROPYLENE
	ESTAMID (ESTER)	DOW CHEMICAL CO.	PEBA	POLYETHER BLOCK AMIDE, THERMOPLASTIC ELASTOMER
(R)	ESTANE	B.G. GOODRICH CHEMICAL	ABS+TPU	ACRYLONITRILE/BUTADIENE/ STYRENE + THERMOPLASTIC POLYURETHANE ELASTOMER
(R)	ESTANE	B.G. GOODRICH CHEMICAL	TPU	THERMOPLASTIC POLYURETHANE ELASTOMER
	ETHOCEL	DOW CHEMICAL CO.	CA	8CELLULOSE ACETATE
	ETHOCEL	DOW CHEMICAL CO.	CAB	CELLULOSE ACETATE BUTYRATE
	ETHOCEL	DOW CHEMICAL CO.	CAP	CELLULOSE ACETATE PROPIONATE
	ETHOCEL	DOW CHEMICAL CO.	CP	CELLULOSE PROPIONATE
	ETHOCEL	DOW CHEMICAL CO.	EC	ETHYL CELLULOSE
	EVANOL	UNKNOWN	PVAL	POLY (VINYL ALCOHOL)
	FERROFLEX	FERRO CORP.	TEO	THERMOPLASTIC POLYOLEFIN ELASTOMER
	FIBERCO	POLYMER COMPOSITES INC.	PA6, PA66	POLYAMIDE 6 & 66—"NYLON 6 & 66"
	FLUON	ICI AMERICAS INC.	PTFE	POLYTETRAFLUOROETHYLENE
	FLUOROCOMP	LNP CORPORATION	FEP	PERFLUORO (ETHYLENE/PROPYLENE)
	FORMION	A. SCHULMAN INC.	EMA	ETHYLENE METHACRYLATE ACID
	FORSACRYL	UNKNOWN	SAN	STYRENE-ACRYLONITRILE
	FORTIFLEX	SOLVAY POLYMERS INC.	PE-LD, PE-MD, PE-HD, PE-LLD	POLYETHYLENE, LOW, MEDIUM, HIGH, LINEAR LOW DENSITY LINEAR LOW DENSITY
	FORTRON	HOECHST CELANESE	PPS	POLY (PHENYLENE SULFIDE)
	GELOY 1200	GENERAL ELECTRIC CO.	ASA+PVC	ACRYLONITRILE/STYRENE/ ACRYLATE + POLYVINYL CHLORIDE
	GELOY 1320	GENERAL ELECTRIC CO.	ASA+PMMA	ACRYLONITRILE/STYRENE/ ACRYLATE + POLYMETHYL METHACRYLATE BLEND
	GELVA	MONSANTO CO.	PVAC	POLY (VINYL ACETATE)
	GELVATOL	MONSANTO CO.	PVAL	POLY (VINYL ALCOHOL)
	GEMAX	GENERAL ELECTRIC CO.	PBT+PPE	POLYBUTYLENE TEREPHTHALATE + POLYPHENYLENE ETHER BLEND

TABLE E1—CROSS REFERENCE LISTING—TRADEMARKS/SUPPLIERS (CONTINUED)

	Trademarks	Supplier	Symbol	Plastic "Family" Name
	GEMON	GENERAL ELECTRIC CO.	PI	POLYIMIDE
	GEON	B.G. GOODRICH CHEMICAL	PVC	POLY (VINYL CHLORIDE)
	GEON	B.G. GOODRICH CHEMICAL	VCVDC	VINYL CHLORIDE/VINYLIDENE CHLORIDE
	GRACON	W.R. GRACE CO.	PVC	POLY (VINYL CHLORIDE)
	GRILON	EMSER INDUSTRIES INC.	PA11	POLYAMIDE 11—"NYLON 11"
	HALON	ALLIED ENGINEERED PLASTICS	PCTFE	POLYCHLOROTRIFLUOROETHYLENE
	HALON	ALLIED ENGINEERED PLASTICS	PTFE	POLYTERAFLUOROETHYLENE
(R)	HIFAX	HIMONT	TEO	THERMOPLASTIC POLYOLEFIN ELASTOMER
(R)	HOSTACOM	HOECHST AG	PP	POLYPROPYLENE
	HOSTADUR	HOECHST AG	PET	POLYETHYLENE TEREPHTHALATE
	HOSTAFLON	HOECHST AG	PTFE	POLYTETRAFLUOROETHYLENE
	HOSTAFORM	HOECHST AG	POM	POLYOXYMETHYLENE: POLYFORMALDEHYDE—"ACETAL"
	HOSTALEN	HOECHST AG	PE-HD	POLYETHYLENE, HIGH DENSITY
	HOSTALEN	HOECHST AG	PEOX	POLY (ETHYLENE OXIDE)
	HOSTALON	HOECHST AG	PP	POLYPROPYLENE
	HOSTALITE Z	HOECHST AG	PVC+CPE	POLYVINYL CHLORIDE + CHLORINATED POLYETHYLENE
	HYCAR	B.G. GOODRICH CHEMICAL	PVC+NBR	POLYVINYL CHLORIDE + NITRILE BUTADIENE RUBBER
	HYTREL	DUPONT DE NEMOURS & CO.	TEEE	THERMOPLASTIC ELASTOMER - ETHER ESTER BLOCK COPOLYMER
	IMPET	HOECHST CELANESE	PET	POLYETHYLENE TEREPHTHALATE
	ISOMIN	UNKNOWN	MF	MELAMINE-FORMALDEHYDE
(R)	ISOPLAST	DOW CHEMICAL CO.	TPU	THERMOPLASTIC POLYURETHANE ELASTOMER
	KADEL	AMOCO CHEMICAL CORP.	PAEK	POLYARYLETHERKETONE
	KAMAX	ROHM & HAAS CO.	PMMI	POLY (METHYLMETHACRYLATE IMIDE)
	KEL-F	3M COMPANY	PCTFE	POLYCHLOROTRIFLUOROETHYLENE
	KINEL	RHONE POULENC INC.	PI	POLYIMIDE
	KRALASTIC FVM	UNIROYAL INC.	ABS+PVC	ACRYLONITRILE/BUTADIENE/STYRENE + POLYVINYL CHLORIDE
	KRATON	SHELL CHEMICAL CO.	TES	THERMOPLASTIC ELASTOMER STYRENE BLOCK COPOLYMER
	KYDEX	ROHM & HAAS CO.	PVC+PMMA	POLYVINYL CHLORIDE + POLYMETHYL METHACRYLATE
	KYNAR	PENNWALT CORP.	PVDF	POLY (VINYLIDENE FLUORIDE)
	K-RESINS	PHILLIPS CHEMICAL CO.	SB	STYRENE-BUTADIENE
	LEXAN	GENERAL ELECTRIC CO.	PC	POLYCARBONATE PLASTICS
	LEXAN	GENERAL ELECTRIC CO.	PC+PE	POLYCARBONATE + POLYETHYLENE
	LOMOD	GENERAL ELECTRIC CO.	TEEE	THERMOPLASTIC ELASTOMER —ETHER ESTER BLOCK COPOLYMER
(R)	LUPOLEN	BASF	PE-HD	POLYETHYLENE, HIGH DENSITY
	LURAN	BASF	ASA	ACRYLONITRILE/STYRENE/ACRYLATE
	LURAN	BASF	SAN	STYRENE/ACRYLONITRILE
	LUSTRAN	MONSANTO CO.	ABS	ACRYLONITRILE/BUTADIENE/STYRENE
	LUSTRAN	MONSANTO CO.	ABS+PVC	ACRYLONITRILE/BUTADIENE/STYRENE + POLYVINYL CHLORIDE
	LUSTRAN	MONSANTO CO.	SAN	STYRENE/ACRYLONITRILE

TABLE E1—CROSS REFERENCE LISTING—TRADEMARKS/SUPPLIERS (CONTINUED)

	Trademarks	Supplier	Symbol	Plastic "Family" Name
	LUVICAN	BASF.	PVK	POLYVINYLCARBAZOLE
	MACROBLEND	BAYER	PC+PBT	POLYCARBONATE + POLYBUTYLENE TEREPHTHALATE
(R)	MACROBLEND	BAYER	PC+PET	POLYCARBONATE + POLYETHYLENE TEREPHTHALATE
(R)	MACROLON	BAYER	PC	POLYCARBONATE PLASTICS
(R)	MAGNUM	DOW CHEMICAL CO.	ABS	ACRYLONITRILE/BUTADIENE/STYRENE
(R)	MARANYL	DUPONT DE NEMOURS & CO.	PA6, PA66	POLYAMIDE 6 & 66—"NYLON 6 & 66"
	MARLEX	PHILLIPS CHEMICAL CO.	PE-MD, PE-HD	POLYETHYLENE, MEDIUM, HIGH DENSITY
	MARLEX	PHILLIPS CHEMICAL CO.	PP	POLYPROPYLENE
	MELMAC	PHILLIPS CHEMICAL CO.	MF	MELAMINE-FORMALDEHYDE
(R)	MERLON	BAYER	PC	POLYCARBONATE PLASTICS
(R)	MERLON T	BAYER	PC+PE	POLYCARBONATE + POLYETHYLENE
	METTON LMR	HERCULES INC.	PDCPD	POLYDICYCLOPENTADIENE
	MICROTHANE	UNKNOWN	EVAC	ETHYLENE/VINYL ACETATE
	MINDEL A	AMOCO CHEMICAL CORP.	PSU+ABS	POLYSULFONE + ABS
	MINDEL B	AMOCO CHEMICAL CORP.	PSU+PET	POLY (PHENYLENE SULFONE)—POLYSULFONE + POLYETHYLENE TEREPHTHALATE
	MINDEL S	AMOCO CHEMICAL CORP.	PSU+PC	POLYSULFONE + POLYCARBONATE
	MINLON	DUPONT DE NEMOURS & CO.	PA66	POLYAMIDE 66—"NYLON 66"
	MOPLEN	HIMONT ITALIA	PP	POLYPROPYLENE
	N5	THERMOFIL INC.	PA+SAN	POLYAMIDE + STYRENE/ACRYLONITRILE
(R)	MYTEX	EXXON CHEMICAL CO	PP	POLYPROPYLENE
	NORYL	GENERAL ELECTRIC CO.	PPE	POLYPHENYLENE ETHER PLASTICS
	NORYL	GENERAL ELECTRIC CO.	PPE+PS	POLYPHENYLENE ETHER + HIGH IMPACT POLYSTYRENE
	NORYL GTX	GENERAL ELECTRIC CO.	PPE+PA	POLYAMIDE + POLYPHENYLENE ETHER
(R)	NOVODUR	BAYER	ABS	ACRYLONITRILE/BUTADIENE/STYRENE
	NOVOLEN	BASF	PP	POLYPROPYLENE
(R)	NYCOA 1900	NYLTECH	PA+EMA	POLYAMIDE + ETHYLENE METHACRYLIC ACID "IONOMER"
(R)	NYDUR	BAYER	PA6	POLYAMIDE 6—"NYLON 6"
	NYLAFIL	AKZO ENG. PLASTICS INC.	PA66	POLYAMIDE 66—"NYLON 66"
	NYLATRON	POLYMER CORP.	PA6, PA66	POLYAMIDE 6 & 66—"NYLON 6 & 66"
	NYPEL	ALLIED SIGNAL INC.	PA6	POLYAMIDE 6—"NYLON 6"
	OLEFLO	AVISUN	PP	POLYPROPYLENE
	OPPANOL B	BASF	PIB	POLYISOBUTYLENE
	OROGLAS	ROHM & HAAS CO.	PMMA	POLY (METHYL METHACRYLATE)—"ACRYLIC"
(R)	ORTHANE	EAGLE PICHER PLASTICS DIV.	TPU	POLYURETHANE, THERMOPLASTIC
	OZO	UNKNOWN	PVC+NBR	POLYVINYL CHLORIDE + NITRILE BUTADIENE RUBBER
	PARACRIL	UNIROYAL INC.	PVC+NBR	POLYVINYL CHLORIDE + NITRILE BUTADIENE RUBBER
	PAXON	ALLIED ENGINEERED PLASTICS	PE-HD	POLYETHYLENE, HIGH DENSITY
	PEBAX	ATOCHEM U.S.A INC.	PEBA	POLYETHER BLOCK AMIDE-THERMOPLASTIC ELASTOMER