



Polymers

100 MHz NMR

NUCLEAR MAGNETIC RESONANCE

Vol. 1

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POLYMERS

100 MHz NUCLEAR MAGNETIC RESONANCE SPECTRA

The Sadtler Commercial Collection of Monomers & Polymers, 100 MHz Nuclear Magnetic Resonance Spectra, is an initial publication of 300 NMR spectra of commercially available polymers and some monomers and additives associated with their manufacture.

Protons give rise to signals of varying position, intensity and complexity. The position of the signal, defined as the chemical shift, is dependent on the immediate electronic environment of the proton and is therefore an indication of its chemical nature. The intensity of a signal, which can be obtained by integration, is a measurement of the number of protons which cause that signal.

The integration curve for each spectrum is superimposed in color on the NMR scan.

INSTRUMENTATION

The spectra were determined at 100 mc/sec on a Varian Model HA-100D spectrometer at magnet temperature of approximately 31°C (unless another temperature is noted on the spectrum). Each sample was dissolved in a suitable solvent together with tetramethylsilane (TMS) as an internal standard.

PRESENTATION

Each spectrum has an identifying NMR number, prefixed by D and suffixed by Z; the corresponding IR number of the compound in the Sadtler Commercial Prism Collection is also shown.

The following information is also reported for each spectrum.

- A. Product Data
 - 1. Commercial name of product
 - 2. Chemical description (if known)
 - 3. Physical data (if known)
 - 4. Source
- B. Instrument Data
 - 1. Filter bandwidth
 - 2. Sweep time
 - 3. Sweep width
 - 4. Sweep offset (if any)
 - 5. Spectrum amplification
 - 6. Integral amplification

Note: When more than one black curve is present on the graph (offset and/or amplification) and readings for this supplemental data are reported immediately after those for the original curve and are separated by a slash, e.g.: spectrum amplification 20/40, the first number would pertain to the original curve while the second would pertain to the amplified portion.

C. Solvent and Concentration

D. Pertinent Remarks

INDICES

The indices furnished with this collection are as follows:

Alphabetical Index according to commercial name and chemical name cross-references.

Classification Index according to chemical type.

Numerical Index according to NMR Spectrum number.

The column of numbers entitled MFG CODE in the classification index refers to the code assigned to the manufacturer.

The three digit number in the column to the left of the compound name in the alphabetical index indicates the code assigned to the chemical class to which each product belongs. The infrared prism and grating spectrum numbers from the Sadtler Commercial Infrared Collection are also included in the indices. These codes will be useful to those using the other available spectra in conjunction with NMR. The titles and corresponding code numbers for the various types of polymers are listed below.

CLASSIFICATION SCHEME

I. Polymers

Aliphatic Hydrocarbons

- 010 Polyethylene
- 020 Polypropylene
- 030 Petroleum hydrocarbon resins
- 040 Synthetic waxes
- 050 Polybutene and butyl rubber
- 060 Polybutadiene
- 070 Synthetic polyisoprene and natural rubber
- 080 Other hydrocarbon polymers and copolymers

Cyclic Unsaturated Hydrocarbons

- 090 Coumarone-indene resins
- 100 Polyterpene and naphthene resins
- 105 Other unsaturated hydrocarbon resins

Aromatic Hydrocarbons

- 120 Polystyrene
- 130 Styrene-butadiene copolymers
- 140 Other styrene copolymers (excluding nitriles)
- 150 Other aromatic vinyl hydrocarbons

Silicone Polymers

210

Polymers Containing Nitrile Linkage

240 Polyurethane and urethane prepolymers

250 Butadiene-acrylonitrile copolymers

260 Other nitrile polymers

Thioplasts

270

Polyethers

290

Anhydride Polymers

300

Epoxy Resins

310 Unmodified epoxy resins

320 Modified epoxy resins

Aliphatic Vinyl and Vinylidene Polymers

380 Polyvinyl ethers

390 Polyvinyl acetals

400 Polyvinyl esters

405 Polyvinyl acetate copolymers

Cellulose Derivatives

470 Cellulose esters and mixed esters

Phenoplasts

490 Phenolic resins

500 Modified phenolic resins

Acrylic and Methacrylic Polymers (excluding nitriles)

520 Acrylic copolymers (see also Styrene copolymers)

530 Polyacrylic and polymethacrylic esters

Polyesters

560 Polyesters

570 Modified polyesters

580 Polycarbonates

590 Alkyds

600 Styrenated alkyds

610 Resin modified alkyds

630 Silicone modified alkyds

Rosin and Rosin Derivatives

660

Aminoplasts

670

Polyamides

690

Polyimides

700

Sulfonated Polymers

740

Polymerized Fats

770

Miscellaneous Polymers

780

II. Monomers

Hydrocarbons

790 Aliphatic unsaturated hydrocarbons

800 Cyclic unsaturated hydrocarbons

810 Aromatic hydrocarbons

820 Halogenated hydrocarbons

830 Compounds containing silicon

840 Compounds containing nitrile linkage

850 Ethers

950 Miscellaneous esters

SADTLER COMMERCIAL NMR SPECTRA

MONOMERS AND POLYMERS

ALPHABETICAL INDEX, NMR

CLASS		MFG CODE	PRISM	GRATING	NMR
840	A-BN CATALYST	9585	D6109	D1354K	D 154Z
080	A-C COPOLYMER 400 E/VA RESIN	120	D5782	D1027K	D 28Z
405	A-C COPOLYMER 400 E/VA RESIN	120	D5782	D1027K	D 28Z
080	A-C COPOLYMER 540	120	D5789	D1034K	D 90Z
520	A-C COPOLYMER 540	120	D5789	D1034K	D 90Z
010	A-C POLYETHYLENE 1702	120	D5856	D1101K	D 3Z
010	A-C POLYETHYLENE 680	120	D6191	D1436K	D 2Z
660	ABALYN /METHYL ESTER OF RUSIN/	4240	D1214		D 253Z
100	ACINTENE N TERPENE POLYMERS	340	D5559	D 804K	D 32Z
530	ACRONAL 4F	510	D5005	D 442K	D 92Z
240	ADIPRENE L-100 URETHANE ELASTOMER	2570	D2193	D 151K	D 200Z
770	ADVIS ACTIVATOR	1430	D6057	D1302K	D 130Z
105	ALAFIN 100L	37	D5041	D 478K	D 270Z
290	ALDOSPERSE S-9	3500	D6295	D1540K	D 47Z
590	ALKYD RESIN 12-014	7630	D5013	D 450K	D 250Z
490	AMBERUL ST137-X	7810	D1540	D 60K	D 225Z
070	AMERIPOL SN 600	3561	D6406	D1651K	D 27Z
830	3-AMINOPROPYLTRIMETHOXYSILANE	1400	D5136	D 573K	D 152Z
700	AMOCO AI POLYMER	190	D5898	D1143K	D 258Z
020	AMOPOL POLYPROPENE C-100	190	D4686	D 326K	D 166Z
890	ANTI-FOAMING AGENT D	2250	D6069	D1314K	D 109Z
850	ARALDITE CY 175	1590	D5023	D 460K	D 282Z
850	ARALDITE RD 1	1590	D5812	D1057K	D 161Z
310	ARALDITE 488 E 32 EPOXY	1590	D4929		D 279Z
320	ARALDITE 502 MODIFIED EPOXY RESIN	1590	D4149	D 220K	D 215Z
590	ARIZONA TACKIFIER 27	340	D6648	D1893K	D 293Z
780	AROCHEM 404 /MODIFIED CONDENSATE/	240	D4312	D 241K	D 134Z
500	AROCHEM 90 /MODIFIED PHENOLIC/	240	D4311	D 240K	D 233Z
490	AROFENE 700	240	D5159	D 596K	D 226Z
590	AROPLAZ M-431-E-60	240	D6202	D1447K	D 101Z
520	AROSET 701	240	D4989	D 426K	D 236Z
780	ASTRO 100-P AROMATIC POLYMER	37	D4864		D 260Z
490	BAKELITE CRRA 0709 PHENOLIC	1400	D6650	D1895K	D 284Z
490	BAKELITE CRRB 0909 PHENOLIC	1400	D6651	D1896K	D 285Z
010	BAKELITE POLYETHYLENE DQDA	1400	D6592	D1837K	D 273Z
105	BAMADENE 100	37	D5123	D 560K	D 190Z
530	BAVICK 11	400	D6333	D1578K	D 93Z
690	BCI NYLON 1157	542	D5802	D1047K	D 117Z
590	BECKOLIN 13-300	7630	D6059	D1304K	D 102Z
770	BECKOLIN 13-301	7630	D6058	D1303K	D 131Z
810	BENZENE, VINYL-,	2470	D4866	D 366K	D 146Z
820	BENZENE, 1,3-BIS/TRICHLOROMETHYL/-,	4480	D4329		D 147Z
800	BICYCLO/3.1.1/HEPT-2-ENE, 2,6,6-TRIMETHYL-,	4240	D1858		D 145Z
850	BIS/VINYLOXY/BUTANE, 1,4-,	180	D4876		D 163Z
830	BOMB-LUBE MOULD LUBRICANT	33	D6066	D1311K	D 150Z
060	BUDENE 501	3580	D6317	D1562K	D 173Z
060	BUDIUM POLYBUTADIENE	2570	D4705	D 331K	D 174Z
790	BUTADIENE, 3-METHYL-1,3-,	2770	D1747		D 262Z
850	BUTANE, 1,4-BIS/VINYLOXY/-,	180	D4876		D 163Z
060	BUTAREZ CTL POLYBUTADIENE	7300	D2028	D 114K	D 26Z
850	BUTYL GLYCIDYL ETHER	1590	D5812	D1057K	D 161Z
050	BUTYL RUBBER EB 268	2770	D6157	D1402K	D 20Z
040	CARDIS POLYMER NO 10 SYNTHETIC WAX	9420	D1323		D 17Z
040	CARDIS 935 POLYMER SYNTHETIC WAX	9420	D1321		D 18Z
780	CARDOLITE NC-513	6470	D4933	D 387K	D 135Z
840	CARWINATE 125M	9130	D5195	D 632K	D 155Z
840	CARWINATE 390P	9130	D5299		D 156Z
500	CASCOPHEN RS-216	930	D4998	D 435K	D 286Z
590	CELLOXYD 6085X	1502	D4987	D 424K	D 248Z
850	CETYL VINYL ETHER	10	D4873		D 162Z
240	CHEMGLAZE 9987	4508	D6293	D1538K	D 42Z
320	CHEMLOK 234 BONDING AGENT	4508	D5971	D1216K	D 216Z
070	CHEMPRENE R-100 ISOPRENOIDAL	1524	D5859	D1104K	D 180Z
610	CHEVRON RESIN 1292	1300	D5713	D 958K	D 252Z
590	CHEVRON RESIN 2202	1300	D5711	D 956K	D 103Z
060	CISDENE 100 CIS-POLYBUTADIENE	167	D4687		D 175Z
290	COREZYN PEF-2006 POLYETHER RESIN	1748	D4777	D 338K	D 202Z
560	COREZYN 10 POLYESTER RESIN	1748	D4949	D 392K	D 241Z
560	COREZYN 600 POLYESTER RESIN	1748	D4941		D 242Z
820	CP-468 CHLORINATED ALIPHATIC	4480	D4868		D 148Z
010	CULVERMUL 100	2140	D5558	D 803K	D 4Z

SADTLER COMMERCIAL NMR SPECTRA

MONOMERS AND POLYMERS		ALPHABETICAL INDEX, NMR			
CLASS		MFG CODE	PRISM	GRATING	NMR
090	CUMAR V 1	450	D1402		D 183Z
670	CYMEL 300 CROSS LINKING AGENT	160	04446	D1843K	D 113Z
670	CYMEL 431 MELAMINE RESIN	160	04845		D 114Z
570	CYPLEX 1526	160	D5619	D 864K	D 244Z
690	D E H 12	2470	D5099	D 536K	D 118Z
320	D E N 439 EPOXY NOVOLAC RESIN	2470	05666	D 911K	D 217Z
310	D E R 330	2470	05230	D 667K	D 65Z
320	D E R 334 EPOXY RESIN	2470	05771	D1016K	D 218Z
310	D E R 667	2470	05233	D 670K	D 204Z
210	DC 710 PHENYMETHYL POLYSILOXAN	2490	06155	D1400K	D 38Z
590	DESMALKYD S155	6630	05625	D 870K	D 104Z
560	DESMOCULL 12 ADHESIVE	534	06624	D1869K	D 288Z
560	DESMOCULL 130 POLYESTER	9008	06646	D1891K	D 290Z
560	DESMOCULL 176 ADHESIVE	534	06644	D1889K	D 291Z
560	DESMOCULL 22 ADHESIVE	534	06623	D1868K	D 289Z
240	DESMODUR M	6630	06051	D1296K	D 201Z
560	DESMOPHEN 2100 POLYESTER	534	04919	D 386K	D 100Z
290	DESMOPHEN 3400 POLYPROPYLENE GLYCOL	534	04914		D 48Z
290	DESMOPHEN 3500 POLYPROPYLENE GLYCOL	534	04915		D 49Z
560	DESMOPHEN 970 POLYESTER	534	04822	D 357K	D 243Z
820	DIABLO 700X	2310	05412		D 149Z
840	DIAZOBIS(2-METHYLPROPIO- NITRILE), 2,2'-,	534	05378		D 157Z
060	DIENE-35-NF POLYBUTADIENE	2950	D1676		D 176Z
270	DION 1002 POLYMERCAPTAN RESIN	2310	05464	D 709K	D 277Z
270	DION 5-1300	2310	05571	D 816K	D 45Z
560	DIOREZ 514	1025	06591	D1836K	D 292Z
800	DIPENTENE NO 122	4240	01475		D 263Z
840	DIPHENYLMETHANE DIISOCYANATE	9130	05195	D 632K	D 155Z
950	DISTEARYL THIODIPROPIONATE	1430	05416	D1894K	D 165Z
950	DISTERDAP ANTIOXIDANT	1430	05416	D1894K	D 165Z
530	DOW CUPOLYMER RESIN EA3018	2470	06299	D1544K	D 94Z
210	DOW CORNING 230 FLUID	2490	06654	D1899K	D 274Z
490	DURITE S-3937	930	01539		D 227Z
850	DVBd DIVINYL ETHER OF BUTANEDIOL	180	04876		D 163Z
010	DYLAN 1220 POLYETHYLENE	5220	04288		D 5Z
670	DYNOMIN MB-14 MELAMINE-FORM- ALDEHYDE RESIN	6824	06590	D1835K	D 295Z
670	DYNOMIN UB-35 UREA FORM- ALDEHYDE RESIN	6824	06599	D1844K	D 296Z
010	EASTOBOND M-2	8950	05965	D1210K	D 6Z
010	EASTOBOND M-3	8950	05968	D1213K	D 7Z
020	EASTOBOND M-5L	8950	06063	D1308K	D 10Z
400	ELVAX VINYL RESIN GRADE 150	2570	04437		D 81Z
400	ELVAX VINYL RESIN GRADE 250	2570	04439		D 82Z
405	ELVAX VINYL RESIN GRADE 260	2570	06301	D1546K	D 86Z
405	ELVAX 220	2570	06332	D1577K	D 85Z
690	EMERY 3796-R	2750	06153	D1398K	D 119Z
780	EPI-CURE 861	1500	06328	D1573K	D 136Z
310	EPI-REZ 509 EPOXY RESIN	4820	04788	D 348K	D 205Z
310	EPIPHEN 8238	930	05185	D 622K	D 66Z
310	EPOCAST 8265 EPOXY RESIN	3240	05664	D 909K	D 67Z
040	EPOLENE E POLYETHYLENE WAX	8950	02204		D 19Z
010	EPOLENE N POLYETHYLENE	8950	02127		D 8Z
320	EPON RESIN 152	8320	06130	D1375K	D 73Z
320	EPON RESIN 154	8320	06009	D1254K	D 219Z
310	EPON RESIN 836	8320	06013	D1258K	D 206Z
310	EPOTUF 37-139	7630	06102	D1347K	D 207Z
310	EPOTUF 37-151 EPOXY RESIN	7630	04901	D 380K	D 208Z
850	EPOXIDE 45	7470	05059	D 496K	D 164Z
850	ETHER, CETYL VINYL	10	04873		D 162Z
380	EXBC	380	01637		D 281Z
310	FA-1 ADHESIVE	362	05769	D1014K	D 68Z
310	FA-8 ADHESIVE	362	05770	D1015K	D 69Z
420	FLEXBOND 315 COPOLYMER	80	05689	D 934K	D 237Z
405	FLEXBOND 315 COPOLYMER	80	05689	D 934K	D 237Z
390	FORMVAR 7/70 POLYVINYL FORMAL	8302	06311	D1556K	D 79Z

SADTLER COMMERCIAL NMR SPECTRA

MONOMERS AND POLYMERS

ALPHABETICAL INDEX, NMR

CLASS		MFG CODE	PRISM	GRATING	NMR
290	G-2720 FOAM ADDITIVE	310	D5877	D1122K	D 502
100	GAMMAPRENE A100	7690	D5756	D1001K	D 332
300	GANTREZ AN-3955	3400	D6324	D1569K	D 632
380	GANTREZ M-155	3400	D5132	D 569K	D 772
400	GELVA C-3.V10 POLYVINYL ACETATE	8302	D4632		D 2222
690	GENAMID 2000	3450	D4968	D 405K	D 1202
310	GENEPOXY 185	3450	D4969	D 406K	D 2092
310	GENEPOXY 450	3450	D6302	D1547K	D 2102
290	HALLCO ANTI-STAT C-1003-P	3880	D6073	D1318K	D 512
290	HALLCO CPH-142-M	3880	D6083	D1328K	D 522
320	HARDENER DS-7077	8455	D6342	D1587K	D 742
660	MERCOLYN D	4240	D1729		D 2542
470	MERCOSE S	4240	D1376		D 2242
490	MERESITE RU-88 /PURE PHENOLIC RESIN	4260	D4084	D 192K	D 2282
570	METROM 355 UNSATO POLYESTER	2580	D5708	D 953K	D 2452
850	HEXADECYL VINYL ETHER,	10	D4873		D 1622
290	HITAFRAN 303	4303	D5573	D 818K	D 532
690	HITANOL 503	4303	D6316	D1561K	D 2972
490	HITANOL 2181	4303	D5598	D 843K	D 2292
250	HYCAR 1312 /LIQUID OR-25/	3590	D1926		D 2762
660	HYDROGUM 400	7630	D5798	D1043K	D 1112
050	INDOPOL L-10 POLYBUTENE	190	D4547	D 298K	D 222
840	ISOBUTYRONITRILE, 2,2*-AZOBIS-,	9585	D6109	D1354K	D 1542
840	ISOCYANIC ACID, 3,3*-DIMETHOXY- 4,4*-BIPHENYLYLENE ESTER	9130	D5195	D 632K	D 1552
240	ISONATE 125MF	9130	D6144	D1389K	D 432
790	ISOPRENE	2770	D1747		D 2622
070	ISOPRENE LATEX 700	8320	D4712		D 1812
780	KETONE RESIN N	510	D5212	D 649K	D 2612
710	KOLINA 55 ADHESIVE RESIN	180	D6635	D1880K	D 1292
130	KRATON 101	8320	D5190	D 627K	D 1942
780	KRUMBHAAR K-1717B RESIN	5280	D6015	D1260K	D 1372
780	KRUMBHAAR K-1717HMP RESIN	5280	D6038	D1283K	D 1382
310	LEKUTHERM E 701	534	D5253	D 690K	D 2112
310	LEKUTHERM X-50	6630	D6101	D1346K	D 702
400	LEMAC 541-20	930	D5683	D 928K	D 2942
610	LEWISOL 28	4240	D1770		D 12
580	LEXAN 115	3420	D1775		D 2492
530	LUCITE 2042 POLYETHYL METHACRYLATE	2570	D4675		D 962
530	LUCITE 2013	2570	D6246	D1491K	D 952
860	LUPERCO AST	9350	D6598		D 2832
120	LUSTREX HI-FLOW 55	6540	D5560	D 805K	D 352
380	LUTONAL J 60	510	D5004	D 441K	D 782
670	MACCO-4000	3520	D6230	D1475K	D 1152
800	P-MENTH-1,8-DIENE	4240	D1475		D 2632
790	2-METHYL-1-PENTENE	3580	D4865		D 1442
840	12-METHYLPROPIONITRILE/, 2,2*-DI- AZOBIS-,	534	D5378		D 1572
320	MIRASOL 601 EPON RESIN	7060	D4292		D 2202
210	MOLD RELEASE COMPOUND H-48	2730	D6240	D1485K	D 392
700	MONTREK 18 POLYETHYLENIMINE	2470	D5810	D1055K	D 2992
020	MOPLIFANE S POLYPROPYLENE	6545	D4700	D 327K	D 112
840	NAFIL RESIN SE-616A POLYISOCYANATE	1507	D4796		D 2662
070	NATURAL RUBBER NO 1 THICK CREPE	9425	D4711		D 1622
290	NEGOMEL AL-5	270	D5399		D 542
150	NEVCHAM 100 AROMATIC HYDROCARBON	6790	D4948		D 1362
090	NEVILLAC RX	6790	D1423		D 1552
030	NEVILLE LY 685-180	6790	D4550		D 1382
090	NEVILLE R-16-A	6790	D4544		D 1642
780	NEVOXY 21 EPOXY EXTENDER	6790	D4833	D 372K	D 1342

SADTLER COMMERCIAL NMR SPECTRA

MONOMERS AND POLYMERS

ALPHABETICAL INDEX, NMR

CLASS		MFG CODE	PRISM	GRATING	NMR
780	NEVOXY 31 EPOXY EXTENDER	6790	04881	D 371K	D 140Z
100	NEVPENE 130	6790	05860	D1105K	D 34Z
100	NIREZ 2092	8925	06006		D 187Z
080	NORDEL 1070	2570	05208	D 645K	D 29Z
310	NUOSTABE V- 205	6880	05282		D 71Z
030	PANAREZ 6-210	190	04073		D 159Z
090	PARADENE NO 2	6790	01416		D 31Z
570	PARAPLEX 5-B-80	7810	04109	D 206K	D 246Z
030	PAVEBRITE C-49980	6790	04601		D 13Z
610	PENTACITE P-406	7630	06023	D1268K	D 105Z
660	PENTALYN 896 HM THERMOPLASTIC RESIN	4240	04193		D 252Z
790	1-PENTENE, 2-METHYL-	3580	04865		D 144Z
010	PETROTHENE LB 742	9170	06286	D1531K	D 9Z
490	PHENOLIC RESIN MCF-34	930	04348		D 230Z
500	PICCU LTP-100	7220	05149	D 586K	D 234Z
105	PICCU 6130-3	7220	06322	D1567K	D 191Z
100	PICCOLYTE A-115	7220	05150	D 587K	D 138Z
100	PICCOLYTE S-40 HYDROCARBON TERPENE	7220	04293		D 189Z
030	PICCUPALE 100-SF FLAKED	7220	06245	D1490K	D 170Z
140	PICCOTEX 120	7220	05170	D 607K	D 37Z
090	PICCOUMARON 25	7220	05015	D 452K	D 185Z
105	PICCOVAR AP-10	7220	05018	D 455K	D 192Z
080	PICCUVAR L-60	7220	06392	D1637K	D 30Z
030	PICCOVAR 75	7220	04545		D 171Z
800	A-PINENE	4240	01858		D 145Z
390	PIOLOFORM BL 18	9320	06411	D1656K	D 80Z
670	PLASTOPAL TS	510	05196	D 633K	D 116Z
060	PLIOFLEX 5000	3580	06320	D1565K	D 177Z
140	PLIOLITE AC	3580	05461	D 706K	D 238Z
520	PLIOLITE AC	3580	05461	D 706K	D 238Z
130	PLIOLITE S-7 THERMOPLASTIC	3580	04279		D 36Z
520	PLIOLITE VTAC	3580	05471	D 716K	D 239Z
150	PLIOLITE VTAC	3580	05471	D 716K	D 239Z
060	POLY B-D CS-15	8430	05457	D 702K	D 179Z
060	POLY B-D R-45M	8430	05858	D1103K	D 178Z
690	POLYAMIDE 1	4290	05114	D 551K	D 122Z
690	POLYAMIDE RESIN 955	3450	01554		D 298Z
405	POLYCO 0155 TERPOLYMER	930	05691	D 936K	D 240Z
520	POLYCO 0155 TERPOLYMER	930	05691	D 936K	D 240Z
530	POLYCO 2725	930	05890	D1135K	D 97Z
290	POLYETHYLENE GLYCOL DILAURATE	8070	05989	D1234K	D 55Z
290	POLYGLYCOL B-500	2470	01882		D 56Z
690	POLYHEXAMETHYLENEBISACRYLAMIDE	930	05429		D 121Z
290	POLYMEG	7570	06204	D1449K	D 57Z
270	POLYMER LP 32 LIQUID POLYMER	8970	02018		D 278Z
030	POLYMER 63-7501-Q	4730	06061	D1306K	D 14Z
690	POLYIMID 1560	5280	06277	D1522K	D 123Z
290	POLYPROPYLENE GLYCOL	400	06194	D1439K	D 58Z
020	POLYPROPYLENE, ATACTIC	170	04441		D 12Z
050	POLYVIS Q-SH POLYBUTENE	1860	04934	D 388K	D 21Z
050	POLYVIS 10-SH POLYBUTENE	1860	04685	D 325K	D 23Z
840	POROFORM N	534	05378		D 157Z
290	PR 1003W	2465	05574	D 819K	D 59Z
290	PRODUCT LA 19	2250	06064	D1309K	D 60Z
950	PROPIONIC ACID, 3,3'-THIOBIS-, DISTEARYL ESTER	1430	05416	D1894K	D 165Z
290	PROPYLAN 3	5360	05466	D 711K	D 61Z
790	PROPYLENE DIMER 2-METHYL-1-PENTENE	3580	04865		D 144Z
530	RESARIT 840	7685	06661	D1906K	D 287Z
670	RESIMENE U920 MELAMINE,UREA RESIN	6540	04022		D 223Z
780	RESIN AW2	510	05402		D 142Z
780	RESIN 26M	510	05403		D 141Z
080	RESIN 510 B 108	4740	06634	D1879K	D 269Z
530	REZ-N-GLUE 3	8125	05957	D1202K	D 98Z
130	RICON 100 POLYBUTADIENE-STY- RENE	9008	06620	D1865K	D 271Z
060	RICON 150 POLYBUTADIENE	9008	06619	D1864K	D 268Z
570	ROSKYDAL E 80 POLYESTER	6630	05710	D 955K	D 247Z
210	RTV-616A	3420	05306		D 40Z
260	RTV-616B	3420	05307		D 44Z

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CLASS		MFG CODE	PRISM	GRATING	NMR
740	SANTOLITE MHP	6540	D4027		D 259Z
690	SCOPE 30	4800	D5218	D 655K	D 124Z
320	SETAL 2786 VV-60	8887	D5669	D 914K	D 221Z
210	SF-1023 PAINT ADDITIVE	3420	D5659	D 904K	D 197Z
210	SF-1066 FOAM CELL CONTROL	3420	D5660	D 905K	D 41Z
500	SHANCO L-1032	8280	D4038		D 235Z
830	SILANE, N-/B-AMINOETHYL-/G-AMINOPROPYLTRIMETHOXY-,	1400	D5474	D 719K	D 153Z
830	SILANE, VINYL-,	1400	D5135	D 572K	D 265Z
830	SILANE, VINYLTRIETHOXY-,	1400	D5137	D 574K	D 264Z
830	SILANE, 3-AMINOPROPYLTRIMETHOXY-,	1400	D5136	D 573K	D 152Z
300	SMA RESIN NO 1420-A	8430	D4745		D 64Z
300	SMA RESIN NO 3000-AS	8430	D4746		D 203Z
840	SPENKEL P23-60CX	8565	D5906	D1151K	D 158Z
840	SPENKEL P49-75S	8565	D5909	D1154K	D 300Z
210	SR-174 SILICONE RESIN	3420	D6142	D1387K	D 198Z
810	STYRENE MONOMER	2470	D4866	D 366K	D 146Z
600	STYRETEX 312 STYRENATED ALKYD	4820	D2274		D 251Z
490	SUPER-BECKACITE 2000	7630	D5787	D1032K	D 231Z
120	SUPERFLEX 900	3895	D5761	D1006K	D 193Z
210	SYLKYO 50	2490	D6435	D1680K	D 199Z
670	SYN-U-TEX 403 UREA FORMALDEHYDE	4820	D2275		D 256Z
670	SYN-U-TEX 4100 UREA MELAMINE RESIN	4820	D4050	D 181K	D 257Z
630	SYNTEX 3304 ALKYD RESIN	4820	D1986		D 110Z
610	SYNTH-COPAL 1200	7630	D6007		D 106Z
290	THANOL F-3002	4780	D6105	D1350K	D 62Z
130	THERMOPLASTIC 125-1000 CLEAK	8320	D5561	D 806K	D 272Z
780	THIOLKOL EM-206	8970	D4372		D 143Z
270	THIOLKOL LP-205 POLYSULFIDE POLYMER	8970	D2086	D 121K	D 46Z
340	TRULON 910	8993	D6271	D1516K	D 280Z
840	ULTRAVIOLET ABSORBER 317	6630	D604C	D1285K	D 159Z
830	UNION CARBIDE A- 151	1400	D5137	D 574K	D 264Z
830	UNION CARBIDE A- 172	1400	D5135	D 572K	D 265Z
830	UNION CARBIDE A- 186	1400	D5139	D 576K	D 151Z
830	UNION CARBIDE A-1110	1400	D5136	D 573K	D 152Z
830	UNION CARBIDE A-1120	1400	D5474	D 719K	D 153Z
840	UVINUL N-539	3400	D5357		D 160Z
320	VANOXY 112	9220	D5579	D 824K	D 75Z
310	VANOXY 128	9220	D5576	D 821K	D 212Z
310	VANOXY 202	9220	D5880	D1125K	D 213Z
310	VANOXY 204	9220	D6188	D1433K	D 214Z
310	VANOXY 209	9220	D6186	D1431K	D 72Z
490	VARCUM 2217 PHENOLIC RESIN	7630	D4925		D 232Z
030	VELSICOL AB 11-4 /THERMOPLASTIC/	9250	D4121	D 215K	D 15Z
030	VELSICOL CO-67 RESIN POLYMER	9250	D6636	D1881K	D 267Z
140	VELSICOL X-30 RESIN	9250	D4546		D 195Z
030	VELSICOL XL-30	9250	D5295		D 16Z
030	VELSICOL XL-39 RESIN	9250	D6318	D1563K	D 172Z
320	VERSAMID X280	3450	D5967	D1212K	D 76Z
690	VERSAMID X280	3450	D5967	D1212K	D 76Z
690	VERSAMID 230	3450	D5964	D1209K	D 125Z
320	VERSAMID 230	3450	D5964	D1209K	D 125Z
690	VERSAMID 335	3450	D6217	D1462K	D 126Z
690	VERSAMID 711	3450	D6330	D1575K	D 127Z
690	VESTAMID 1205 NYLON 12	4511	D5807	D1052K	D 128Z
530	VIACRYL 32	9265	D6398	D1643K	D 99Z
610	VIALKYD D 4	9265	D6387	D1632K	D 108Z
610	VIALKYD TRE 36	9265	D6396	D1641K	D 107Z
470	VIALKYD TRS 74	9265	D6384	D1629K	D 88Z
490	VIAPHEN V 10	9265	D6388	D1633K	D 89Z
400	VINAC B-7 POLYVINYL ACETATE	80	D5687	D 932K	D 83Z
400	VINMAPAS B 1.5 SPECIAL	9320	D6380	D1625K	D 84Z
405	VINMAPAS E 6035	9320	D6354	D1599K	D 87Z
830	VINYL SILANE	1400	D5135	D 572K	D 265Z
830	VINYLTRIETHOXSILANE	1400	D5137	D 574K	D 264Z
050	VISTANEX L-140	2770	D6033	D1278K	D 24Z
050	VISTANEX LM-MH POLYISOBUTYLENE	2770	D4703		D 25Z
770	VORITE 110	390	D4970	D 407K	D 132Z

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CLASS		MFG CODE	PRISM	GRATING	NMR
770	VORITE 120	390	D4972	D 409K	D 133Z
660	WESTVACO RESIN 90	9430	D6243	D1488K	D 112Z
030	X-37 HYDROCARBON RESIN	9250	D4425		D 167Z
520	ZETAFIN TYPE 70	2470	D4430		D 91Z

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	MFG CODE	PRISM	GRATING	NMR
10 POLYETHYLENE				
A-C POLYETHYLENE 1702	120	05856	D1101K	D 32
A-C POLYETHYLENE 680	120	06191	D1436K	D 22
BAKELITE POLYETHYLENE DQDA	1400	06592	D1837K	D 2732
CULVERMUL 100	2140	05558	D 803K	D 42
DYLAN 1220 POLYETHYLENE	5220	04288		D 52
EASTOBOND M-2	8950	05965	D1210K	D 62
EASTOBOND M-3	8950	05968	D1213K	D 72
EPOLENE N POLYETHYLENE	8950	02127		D 82
PETROTHENE LB 742	9170	06286	D1531K	D 92
20 POLYPROPYLENE				
AMOPOL POLYPROPENE C-100	190	04686	D 326K	D 1662
EASTOBOND M-5L	8950	06063	D1308K	D 102
MOPLIFANE S POLYPROPYLENE	6545	04700	D 327K	D 112
POLYPROPYLENE, ATACTIC	170	04441		D 122
30 PETROLEUM HYDROCARBON RESINS				
NEVILLE LX 685-180	6790	04950		D 1682
PANAREZ 6-210	190	04073		D 1692
PAVEBRITE C-49980	6790	04601		D 132
PICCOPALE 100-SF FLAKED	7220	06245	D1490K	D 1702
PICCOVAR 75	7220	05455		D 1712
POLYMER 63-7501-0	4730	06061	D1306K	D 142
VELSICOL AB 11-4 /THERMOPLASTIC/	9250	04121	D 215K	D 152
VELSICOL CO-67 RESIN POLYMER	9250	06636	D1881K	D 2672
VELSICOL XL-30	9250	05295		D 162
VELSICOL XL-39 RESIN	9250	06318	D1563K	D 1722
X-37 HYDROCARBON RESIN	9250	04425		D 1672
40 SYNTHETIC WAXES				
CARDIS POLYMER NO 10 SYNTHETIC WAX	9420	01323		D 172
CARDIS 935 POLYMER SYNTHETIC WAX	9420	01321		D 182
EPOLENE E POLYETHYLENE WAX	8950	02204		D 192
50 POLYBUTENE AND BUTYL RUBBER				
BUTYL RUBBER EB 268	2770	06157	D1402K	D 202
INDOPOL L-10 POLYBUTENE	190	04547	D 298K	D 222
POLYVIS D-SH POLYBUTENE	1860	04934	D 388K	D 212
POLYVIS 10-SH POLYBUTENE	1860	04685	D 325K	D 232
VISTANEX L-140	2770	06033	D1278K	D 242
VISTANEX LM-MM POLYISOBUTYLENE	2770	04703		D 252
60 POLYBUTADIENE				
BUDENE 501	3580	06317	D1562K	D 1732
BUDIUM POLYBUTADIENE	2570	04705	D 331K	D 1742
BUTAREZ CTL POLYBUTADIENE	7300	02028	D 114K	D 262
CISDENE 100 CIS-POLYBUTADIENE	167	04687		D 1752
DIENE-35-NF POLYBUTADIENE	2950	01676		D 1762
PLIOFLEX 5000	3580	06320	D1565K	D 1772
POLY B-D CS-15	8430	05457	D 702K	D 1792
POLY B-D R-45M	8430	05858	D1103K	D 1782
RICON 150 POLYBUTADIENE	9008	06619	D1864K	D 2682
70 SYNTHETIC POLYISOPRENE AND NATURAL RUBBER				
AMERIPOL SM 600	3561	06406	D1651K	D 272
CHEMPRENE R-100 ISOPRENOIDAL	1524	05859	D1104K	D 1802
ISOPRENE LATEX 700	8320	04712		D 1812
NATURAL RUBBER NO 1 THICK CREPE	9425	04711		D 1822
80 ALIPHATIC HYDROCARBON COPOLYMERS				
A-C COPOLYMER 400 E/VA RESIN	120	05782	D1027K	D 282
A-C COPOLYMER 540	120	05789	D1034K	D 902
NORDEL 1070	2570	05208	D 645K	D 292
PICCOVAR L-60	7220	06392	D1637K	D 302
RESIN 510 B 108	4740	06634	D18 9K	D 2692
90 COUMARONE INDENE RESINS				
CUMAR V 1	450	01402		D 1832
NEVILLAC RX	6790	01423		D 1852
NEVILLE R-16-A	6790	04544		D 1842
PARADENE NO 2	6790	01416		D 312
PICCOUMARON 25	7220	05015	D 452K	D 1862
100 POLYTERPENE AND NAPHTHENE RESINS				
ACINTENE N TERPENE POLYMER	340	05559	D 804K	D 322
GAMMAPRENE A100	7630	05756	D1001K	D 332

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		MFG CODE	PRISM	GRATING	NMR
	NEVPENE 130	6790	05860	D1105K	D 34Z
	NIREZ, 2092	8925	06006		D 187Z
	PICCOLYTE A-115	7220	05150	D 587K	D 188Z
	PICCOLYTE S-40 HYDROCARBON TERPENE	7220	04293		D 189Z
105	OTHER CYCLIC HYDROCARBON RESINS				
	ALAFIN 100L	37	05041	D 478K	D 270Z
	BAMADENE 100	37	05123	D 560K	D 190Z
	PICCO 6130-3	7220	06322	D1567K	D 191Z
	PICCOVAR AP-10	7220	05018	D 455K	D 192Z
120	POLYSTYRENE				
	LUSTREX HI-FLOW 55	6540	05560	D 805K	D 35Z
	SUPERFLEX 900	3895	05761	D1006K	D 193Z
130	STYRENE BUTADIENE COPOLYMERS				
	KRATON 101	8320	05190	D 627K	D 194Z
	PLIOLITE S-7 THERMOPLASTIC	3580	04279		D 36Z
	RICUN 100 POLYBUTADIENE-STY- RENE	9008	06620	D1865K	D 271Z
	THERMOPLASTIC 125-1000 CLEAR	8320	05561	D 806K	D 272Z
140	OTHER STYRENE COPOLYMERS				
	PICCOTEX 120	7220	05170	D 607K	D 37Z
	PLIOLITE AC	3580	05461	D 706K	D 238Z
	VELSICOL X-30 RESIN	9250	04546		D 195Z
150	AROMATIC VINYL HYDROCARBON RESINS				
	NEVCHEM 100 AROMATIC HYDROCARBON	6790	04948		D 196Z
	PLIOLITE VTAC	3580	05471	D 716K	D 239Z
210	SILICONE POLYMERS				
	DC 710 PHENYLMETHYL POLYSILOXAN	2490	06155	D1400K	D 38Z
	UOW CORNING 230 FLUID	2490	06654	D1899K	D 274Z
	MOLD RELEASE COMPOUND H-48	2730	06240	D1485K	D 39Z
	RTV-616A	3420	05306		D 40Z
	SF-1023 PAINT ADDITIVE	3420	05659	D 904K	D 197Z
	SF-1066 FOAM CELL CONTROL	3420	05660	D 905K	D 41Z
	SR-174 SILICONE RESIN	3420	06142	D1387K	D 198Z
	SYLKYO 50	2490	06435	D1680K	D 199Z
240	POLYURETHANES AND PREPOLYMERS				
	ADIPRENE L-100 URETHANE ELASTOMER	2570	02193	D 151K	D 200Z
	CHEMGLAZE 9987	4508	06293	D1538K	D 42Z
	DESMODUR M	6630	06051	D1296K	D 201Z
	ISOMATE 125MF	9130	06144	D1389K	D 43Z
250	BUTADIENE ACRYLONITRILE COPOLYMERS				
	HYCAR 1312 /LIQUID OR-25/	3590	D1926		D 276Z
260	OTHER NITRILE POLYMERS				
	RTV-616B	3420	05307		D 44Z
270	THIOPLASTS /POLYSULFIDES/				
	DION 1002 POLYMERCAPTAN RESIN	2310	05464	D 709K	D 277Z
	DION 5-1300	2310	05571	D 816K	D 45Z
	POLYMER LP 32 LIQUID POLYMER	8970	02018		D 278Z
	THIOLOL LP-205 POLYSULFIDE POLYMER	8970	02086	D 121K	D 46Z
290	POLYETHERS				
	ALDOSPERSE S-9	3500	06295	D1540K	D 47Z
	COREZYN PEF-2006 POLYETHER RESIN	1748	04777	D 338K	D 202Z
	DESMOPHEN 3400 POLYPROPYLENE GLYCOL	534	04914		D 48Z
	DESMOPHEN 3500 POLYPROPYLENE GLYCOL	534	04915		D 49Z
	G-2720 FOAM ADDITIVE	310	05877	D1122K	D 50Z
	HALLCO ANTI-STAT C-1003-P	3880	06073	D1318K	D 51Z
	HALLCO CPH-142-N	3880	06083	D1328K	D 52Z
	HITAFRAM 303	4303	05573	D 818K	D 53Z
	NEGOMEL AL-5	270	05399		D 54Z
	POLYETHYLENE GLYCOL DILAURATE	8070	05989	D1234K	D 55Z
	POLYGLYCOL 8-500	2470	01882		D 56Z
	POLYMEG	7570	06204	D1449K	D 57Z
	POLYPROPYLENE GLYCOL	400	06194	D1439K	D 58Z
	PR 1000W	2465	05574	D 819K	D 59Z
	PRODUCT LA 19	2250	06064	D1309K	D 60Z
	PROPYLAN 3	5360	05466	D 711K	D 61Z
	THANOL F-3002	4780	06105	D1350K	D 62Z
300	ANHYDRIDE POLYMERS				

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	MFG CODE	PRISM	GRATING	NMR
GANTREZ AM-3955	3400	D6324	D1569K	D 63Z
SMA RESIN NO 1420-A	8430	D4745		D 64Z
SMA RESIN NO 3000-AS	8430	D4746		D 203Z
310 UNMODIFIED EPOXY RESINS				
ARALDITE 488 E 32 EPOXY	1590	D4929		D 279Z
D E R 330	2470	D5230	D 667K	D 65Z
D E R 667	2470	D5233	D 670K	D 204Z
EPI-REZ 509 EPOXY RESIN	4820	D4788	D 348K	D 205Z
EPIPHEN 8238	930	D5185	D 622K	D 66Z
EPOCAST 8265 EPOXY RESIN	3240	D5664	D 904K	D 67Z
EPON RESIN 836	8320	D6013	D1258K	D 206Z
EPOTUF 37-139	7630	D6102	D1347K	D 207Z
EPOTUF 37-151 EPOXY RESIN	7630	D4901	D 380K	D 208Z
FA-1 ADHESIVE	362	D5769	D1014K	D 68Z
FA-8 ADHESIVE	362	D5770	D1015K	D 69Z
GENEPOXY 185	3450	D4969	D 406K	D 209Z
GENEPOXY 450	3450	D6302	D1547K	D 210Z
LEKUTHERM E 701	534	D5253	D 690K	D 211Z
LEKUTHERM X-50	6630	D6101	D1346K	D 70Z
NUOSTABE V-205	6880	D5282		D 71Z
VANOXY 128	9220	D5576	D 821K	D 212Z
VANOXY 202	9220	D5880	D1125K	D 213Z
VANOXY 204	9220	D6188	D1433K	D 214Z
VANOXY 209	9220	D6186	D1431K	D 72Z
320 MODIFIED EPOXY RESINS				
ARALDITE 502 MODIFIED EPOXY RESIN	1590	D4149	D 220K	D 215Z
CHEMLOK 234 BONDING AGENT	4508	D5971	D1216K	D 216Z
D E N 439 EPOXY NOVOLAC RESIN	2470	D5666	D 911K	D 217Z
D E R 534 EPOXY RESIN	2470	D5771	D1016K	D 218Z
EPON RESIN 152	8320	D6130	D1375K	D 73Z
EPON RESIN 154	8320	D6009	D1254K	D 219Z
HARDENER DS-7077	8455	D6342	D1587K	D 74Z
MIRASOL 601 EPOXY RESIN	7060	D4292		D 220Z
SETAL 2786 VV-60	8887	D5669	D 914K	D 221Z
VANOXY 112	9220	D5579	D 824K	D 75Z
VERSAMID X280	3450	D5967	D1212K	D 76Z
VERSAMID 230	3450	D5964	D1209K	D 125Z
TRULON 910	8993	D6271	D1516K	D 280Z
380 POLYVINYL ETHERS				
EXBC	380	D1637		D 281Z
GANTREZ M-155	3400	D5132	D 569K	D 77Z
LUTONAL J 60	510	D5004	D 441K	D 78Z
390 POLYVINYL ACETALS				
FORMVAR 7/70 POLYVINYL FORMAL	8302	D6311	D1556K	D 79Z
PIULOFORM BL 18	9320	D6411	D1656K	D 80Z
400 POLYVINYL ESTERS				
ELVAX VINYL RESIN GRADE 150	2570	D4437		D 81Z
ELVAX VINYL RESIN GRADE 250	2570	D4439		D 82Z
GELVA C-3,V10 POLYVINYL ACETATE	8302	D4632		D 222Z
LEMAC 541-20	930	D5683	D 928K	D 294Z
VINAC B-7 POLYVINYL ACETATE	80	D5687	D 932K	D 83Z
VINNAPAS B 1.5 SPECIAL	9320	D6380	D1625K	D 84Z
405 VINYL ACETATE COPOLYMERS				
A-C COPOLYMER 400 E/VA RESIN	120	D5782	D1027K	D 28Z
ELVAX VINYL RESIN GRADE 260	2570	D6301	D1546K	D 86Z
ELVAX 220	2570	D6332	D1577K	D 85Z
FLEXBOND 315 COPOLYMER	80	D5689	D 934K	D 237Z
POLYCO 0155 TERPOLYMER	930	D5691	D 936K	D 240Z
VINNAPAS E 6035	9320	D6354	D1599K	D 87Z
470 CELLULOSE ESTERS AND MIXED ESTERS				
HERCOSE S	4240	D1376		D 224Z
VIALKYD TRS 74	9265	D6384	D1629K	D 88Z
490 PHENOLIC RESINS				
AMBEROL ST137-X	7810	D1540	D 60K	D 225Z
AROFENE 700	240	D5159	D 596K	D 226Z
BAKELITE CRRA 0709 PHENOLIC	1400	D6650	D1895K	D 284Z
BAKELITE CRRB 0909 PHENOLIC	1400	D6651	D1896K	D 285Z
DURITE S-3937	930	D1539		D 227Z
HERESITE RO-88 /PURE PHENOLIC RESIN	4260	D4084	D 192K	D 228Z
HITANOL 2181	4303	D5598	D 843K	D 229Z

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		MFG CODE	PRISM	GRATING	NMR
	PHENOLIC RESIN MCF-34	930	04348		D 230Z
	SUPER-BECKACITE 2000	7630	05787	D1032K	D 231Z
	VARCUM 2217 PHENOLIC RESIN	7630	04925		D 232Z
	VIAPHEN V 10	9265	06388	D1633K	D 89Z
500	MODIFIED PHENOLIC RESINS				
	ARGCHEM 90 /MODIFIED PHENOLIC/	240	04311	D 240K	D 233Z
	CASCOPHEN RS-216	930	04998	D 435K	D 286Z
	PICCO LTP-100	7220	05149	D 586K	D 234Z
	SHANCO L-1032	8280	04038		D 235Z
520	ACRYLIC COPOLYMERS				
	A-C COPOLYMER 540	120	05789	D1034K	D 90Z
	ARUSET 701	240	04989	D 426K	D 236Z
	FLEXBOND 315 COPOLYMER	80	05689	D 934K	D 237Z
	PLIOLITE AC	3580	05461	D 706K	D 238Z
	PLIOLITE VTAC	3580	05471	D 716K	D 239Z
	POLYCO 0155 TERPOLYMER	930	05691	D 936K	D 240Z
	ZETAFIN TYPE 70	2470	04430		D 91Z
530	POLYACRYLATES AND POLYMETHACRYLATES				
	ACRONAL 4F	510	05005	D 442K	D 92Z
	BAVICK 11	400	06333	D1578K	D 93Z
	DOW COPOLYMER RESIN EA3018	2470	06299	D1544K	D 94Z
	LUCITE 2042 POLYETHYL METHACRYLATE	2570	04675		D 96Z
	LUCITE 2013	2570	06246	D1491K	D 95Z
	POLYCO 2725	930	05890	D1135K	D 97Z
	RESARIT 840	7685	06661	D1906K	D 287Z
	REZ-N-GLUE 3	8125	05957	D1202K	D 98Z
	VIACRYL 32	9265	06398	D1643K	D 99Z
560	POLYESTERS				
	COREZYN 10 POLYESTER RESIN	1748	04949	D 392K	D 241Z
	COREZYN 600 POLYESTER RESIN	1748	04941		D 242Z
	DESMOCOLL 12 ADHESIVE	534	06624	D1869K	D 288Z
	DESMOCOLL 130 POLYESTER	9008	06646	D1891K	D 290Z
	DESMOCOLL 176 ADHESIVE	534	06644	D1889K	D 291Z
	DESMOCOLL 22 ADHESIVE	534	06623	D1868K	D 289Z
	DESMOPHEN 2100 POLYESTER	534	04919	D 386K	D 100Z
	DESMOPHEN 970 POLYESTER	534	04822	D 357K	D 243Z
	DIOREZ 514	1025	06591	D1836K	D 292Z
570	MODIFIED POLYESTERS				
	CYPLEX 1526	160	05619	D 864K	D 244Z
	HETRON 355 UNSATD POLYESTER	2580	05708	D 953K	D 245Z
	PARAPLEX 5-B-80	7810	04109	D 206K	D 246Z
	ROSKYDAL E 80 POLYESTER	6630	05710	D 955K	D 247Z
580	POLYCARBONATES				
	LEXAN 115	3420	01775		D 249Z
590	ALKYDS				
	ALKYD RESIN 12-014	7630	05013	D 450K	D 250Z
	ARIZONA TACKIFIER 27	340	06648	D1893K	D 293Z
	AROPLAZ M-431-E-60	240	06202	D147K	D 101Z
	BECKULIN 13-300	7630	06059	D1304K	D 102Z
	CELLOKYD 6085X	1502	04987	D 424K	D 248Z
	CHEVRON RESIN 2202	1300	05711	D 956K	D 103Z
	DESMALKYD S155	6630	05625	D 870K	D 104Z
600	STYRENATED ALKYDS				
	STYRETEX 312 STYRENATED ALKYD	4820	02274		D 251Z
610	RESIN MODIFIED ALKYDS				
	CHEVRON RESIN 1292	1300	05713	D 958K	D 252Z
	LEWISOL 28	4240	01770		D 1Z
	PENTACITE P-406	7630	06023	D1268K	D 105Z
	SYNTH-COPAL 1200	7630	06007		D 106Z
	VIALKYD D 4	9265	06387	D1632K	D 108Z
	VIALKYD TRE 36	9265	06396	D1641K	D 107Z
630	SILICONE MODIFIED ALKYDS				
	SYNTEX 3304 ALKYD RESIN	4820	01986		D 110Z
660	ROSIN AND ROSIN DERIVATIVES				
	ABALYN /METHYL ESTER OF ROSIN/	4240	01214		D 253Z
	HERCOLYN D	4240	01729		D 254Z
	HYDROGUM 400	7630	05798	D1043K	D 111Z