



FIBERS

GRATING SPECTRA

LEGAL NOTICE

The publication of the physical data of the Sadtler Standard Spectra and the Sadtler Commercial Spectra is intended to be descriptive. As the samples of the materials represented have come generally from other sources than our own laboratories and frequently without the donors knowledge of their part in this publication, there can be no warranty either implied or otherwise.

On the other hand every effort is made by Sadtler Research Laboratories to be sure that the reliability of the published spectrum is the best. When improved data is available or errors are called to our attention we revise and reissue the proper replacement spectra.

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SADTLER COMMERCIAL SPECTRA

FIBERS

INFRARED GRATING SPECTRA

This is a collection of 250 infrared absorption spectrograms of commercially available fibers. The collection contains spectrograms of natural and synthetic fibers from domestic and foreign sources. Among the natural fibers represented are cotton, wool, silk, zein, etc. The spectra of man-made fibers represent all of the generic classifications defined in the "Textile Fiber Products Identification Act" with the exception of the "Metallic" class.

The spectrograms were prepared on a Perkin-Elmer 521 grating spectrophotometer which gives transmittance vs. linear frequency presentation. The spectra were determined in the spectral region 4000 cm^{-1} to 250 cm^{-1} (2.5 to 40 microns) with two grating changes: first order at 1997 cm^{-1} to 1992 cm^{-1} and second order at 634 cm^{-1} to 632 cm^{-1} . The stray light filters incorporated in the instrument are at approximately 3138 cm^{-1} , 2490 cm^{-1} , 1520 cm^{-1} , 1130 cm^{-1} and 390 cm^{-1} .

In order to provide additional information a number of samples were pyrolyzed by the Harms ⁽¹⁾ method and spectra prepared from the pyrolyzates. ⁽²⁾

Each spectrum is labelled with the trade name of the product, the supplier, descriptive information and the method of sample preparation. In those cases where the sample was examined as a film the solvent used to cast the film is also noted.

Products represented in this collection have also been scanned on a Beckmann IR-4 spectrophotometer and the prism spectra have been published by Sadtler Research Laboratories.

An alphabetical index and a classification index are supplied with the collection. The alphabetical arrangement is according to trade name and shows the prism and grating spectrum numbers. The classification index categorizes the products according to generic identity and includes prism and grating spectrum numbers.

We wish to acknowledge the cooperation of manufacturers in supplying us with samples for inclusion in this collection.

- (1) Harms, D. L., ANAL. CHEM., 25, 1140 (1953)
- (2) Investigations conducted at Sadtler Research Laboratories have indicated that delay in the preparation of the spectrogram after pyrolysis adversely affects reproducibility. It is recommended that the spectrum be recorded as soon as possible after pyrolysis.

SADTLER COMMERCIAL SPECTRA

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INDICES

These are the indices to the collection of prism and grating infrared absorption spectra published by Sadtler Research Laboratories.

The alphabetical index contains the products arranged according to trade name and shows the corresponding prism and grating spectrum numbers.

The class index contains the products arranged according to generic classifications laid down by the Textile Fiber Products Identification Act, and the prism and grating spectrum numbers are shown.

The three digit number in the column to the left of the trade name in the alphabetical index indicates the class code assigned to the generic group to which each product belongs. A list of the generic types and corresponding class headings is given on the following page.

The code in the column to the left of the spectrum numbers is an arbitrarily assigned manufacturers code. Our index of manufacturers is updated annually and published with the Composite Commercial Alphabetical Index.

CLASSIFICATION SCHEME

NATURAL FIBERS

040 ANIMAL - silk, wool, hair
120 SEED - cotton, kapok
160 BAST - flax, jute, hemp
200 LEAF - manila, sisal, raffia
240 MINERAL - asbestos
300 MISCELLANEOUS

MAN-MADE FIBERS (based on FTC generic names)

320 ACETATE
360 ACRYLIC
400 AZLON
440 GLASS, CERAMIC
480 LASTRILE
520 MODACRYLIC
560 NYLON
600 NYTRIL
640 OLEFIN
680 POLYESTER
720 RAYON
760 RUBBER
800 SARAN
840 SPANDEX
880 TRIACETATE
920 VINYL
960 VINYLON
990 UNCLASSIFIED

SADTLER COMMERCIAL SPECTRA
FIBERS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
160	ABACA	3250	K 136K	K 168
160	ABACA /PYROLYZATE/	3250	K 220K	K 252
320	ACELE TYPE C ACETATE YARN	2570	K 149K	K 181
320	ACETATE-F STAPLE BRIGHT	1500	K 22K	K 54
320	ACETATE-K STAPLE DULL	1500	K 23K	K 55
360	ACRILAN TYPE 70 /PYROLYZATE/	6540	K 199K	K 231
360	ACRILAN 36 ACRYLIC FIBER	1570	K 3K	K 8
680	ACROCEL COPOLYMER POLYESTER	8875	K 41K	K 73
360	ACRYLAN TYPE 77 /PYROLYZATE/	1570		K 276
990	ACRYLAST /PYROLYZATE/	2480		K 267
320	ALBENE ITALIA	7707	K 87K	K 119
600	ALGIL /PYROLYZATE/	7370	K 218K	K 250
560	ANTRON TYPE 860 NYLON	2570	K 60K	K 92
560	ANTRON 24 TEXTURED NYLON YARN	2570	K 64K	K 96
880	ARNEL TRIACETATE	1500	K 8K	K 22
240	ASBESTOS KB-483-4T CHRYSOTILE	346	K 168K	K 200
440	AVCERAM SINTERABLE CERAMIC	170	K 169K	K 201
680	AVLIN SEE FIBER 200	170	K 72K	K 104
640	BEXYARN HD 1 /PYROLYZATE/	1130		K 277
640	BEXYARN HD 1 POLYETHYLENE	1130	K 185K	K 217
560	BLUE C NYLON TYPE 66	6540	K 11K	K 32
680	BLUE C POLYESTER	1570	K 134K	K 166
680	BLUE C POLYESTER /PYROLYZATE/	1570		K 275
640	BOLTALEN POLYETHYLENE	895	K 163K	K 195
640	BOLTALEN P /PYROLYZATE/	895		K 280
640	BOLTALEN P POLYPROPYLENE	895	K 143K	K 175
560	BRI-NYLON /PYROLYZATE/	4650		K 282
560	BRI-NYLON TYPE 66	4650	K 55K	K 87
990	BRISTRAND	7370		K 47
320	BRISTRAND /PYROLYZATE/	7370	K 196K	K 228
800	BXP SARAN	1130	K 162K	K 194
800	BXP SARAN /PYROLYZATE/	1130	K 205K	K 237
400	CALCIUM ALGINATE	1886	K 174K	K 206
560	CANTRECE TYPE 880 /PYROLYZATE/	2570		K 279
560	CANTRECE TYPE 880 NYLON	2570	K 63K	K 95
560	CAPROLAN SD /PYROLYZATE/	120	K 208K	K 240
560	CAPROLAN SD SEMI-DULL NYLON 6	120	K 54K	K 86
320	CELAFIBRE STAPLE DULL ACETATE	1031	K 21K	K 53
320	CELANESE ACETATE 3W LUSTER	1500		K 4
320	CELLULOSE ACETATE	5365	K 133K	K 165
990	CELLULOSE XANTHATE	170	K 74K	K 106
560	CELOX NYLON 6	1886	K 111K	K 143
320	CHROMSPUN ACETATE FILAMENT	8950	K 86K	K 118
320	CHROMSPUN ACETATE /PYROLYZATE/	8950		K 269
320	CHROMSPUN LOFTURA	8950	K 85K	K 117
320	CHROMSPUN TYPE 50 ACETATE	8950	K 84K	K 116
560	CIFALON 30/6 1/2 MATE SEMIDULL	1596	K 100K	K 132
560	CIFALON 40/9 ULTRA-MATE DULL	1596	K 119K	K 151
560	CIFALON 40/9 1/2 MATE SEMIDULL	1596	K 124K	K 156
960	CLEVYL T SEE RHOVYL T	8532	K 141K	K 173
300	COCONUT FIBER	8650	K 135K	K 167
300	COCONUT FIBER /PYROLYZATE/	8650		K 258
300	COIR CEYLON COCONUT FIBER	2175	K 166K	K 198
300	COIR YARN /PYROLYZATE/	2175		K 261
760	CONTRO RUBBER /PYROLYZATE/	2950	K 206K	K 238
120	COTTON FIBERS /ABSORBENT/	4790		K 17
640	COURLENE PY	1886	K 161K	K 193
640	COURLENE X3	1886	K 160K	K 192
560	CREPESET - SEMI-DULL NYLON 6	129	K 98K	K 130
360	CRESLAN TYPE 58 ACRYLIC FIBER	160	K 1K	K 2
360	CRESLAN TYPE 61 /PYROLYZATE/	160		K 271
360	CRESLAN TYPE 61 ACRYLIC FIBER	160	K 49K	K 81
680	DACRON TYPE 54 /PYROLYZATE/	2570		K 266
680	DACRON TYPE 54 REGULAR	2570	K 4K	K 11
680	DACRON TYPE 62 POLYESTER	2570	K 128K	K 160
680	DACRON 62 SEMI-DULL /PYROLYZATE	2570	K 202K	K 234
600	DARVAN	3560		K 24
560	DECALON POLYAMIDE	7707	K 29K	K 61
560	DELFION NYLON 6 STAPLE	900	K 91K	K 123

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FIBERS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
320	DICEL ACETATE YARN	1031	K 157K	K 189
640	DLP 57-509 POLYPROPYLENE	3700	K 158K	K 190
840	DURASPAN /PYROLYZATE/	1440		K 270
520	DYNEL TYPE 180 MODACRYLIC	1400	K 2K	K 3
120	EGYPT KARNAK COTTON	1550		K 5
680	ENCRON - SEMI-DULL POLYESTER	129	K 73K	K 105
560	ENKA NYLON BRIGHT /PYROLYZATE/	129		K 274
560	ENKA NYLON REGULAR TENACITY /6/	129	K 95K	K 127
680	ENKA POLYESTER /PYROLYZATE/	129		K 272
680	ENKA POLYESTER HIGH TENACITY	129	K 70K	K 102
680	ENKA POLYESTER REG. TENACITY	129	K 73K	K 105
720	ENKA RAYON HIGH TENACITY	129	K 79K	K 111
560	ENKALOF - SEMI-BRIGHT NYLON 6	129	K 62K	K 94
560	ENKALON NYLON 6	119	K 112K	K 144
560	ENKALURE - BRIGHT NYLON 6	129	K 82K	K 114
560	ENKATRON - SEMI-BRIGHT NYLON 6	129	K 61K	K 93
560	ENKATRON SEMI-BRIGHT PYROLYZATE	129		K 273
320	ESTRON NO.10 BRIGHT	8950	K 151K	K 183
320	ESTRON TYPE 88 ACETATE	8950	K 6K	K 14
320	ESTRON 10 BRIGHT /PYROLYZATE/	8950	K 210K	K 242
360	EUROACRIL ACRYLIC SEMI-DULL	205	K 173K	K 205
360	EUROACRIL SEMI-DULL PYROLYZATE	205		K 284
560	F II NYLON 6.6 FILAMENT	1500	K 31K	K 63
560	FABELNYL BRILLIANT NYLON 66	9145	K 103K	K 135
560	FABELNYL SEMI-DULL NYLON 66	9145	K 89K	K 121
720	FIBER W-63 VISCOSE RAYON	1880	K 77K	K 109
680	FIBER 200 TYPE 104 POLYESTER	170	K 72K	K 104
720	FIBER 24	6425	K 78K	K 110
720	FIBRO RAYON STAPLE	1880		K 28
400	FIBROLANE	1886	K 176K	K 208
560	FIRESTONE NYLON /PYROLYZATE/	2950		K 285
560	FIRESTONE NYLON MONOFILAMENT	2950	K 30K	K 62
160	FLAX	3250	K 165K	K 197
160	FLAX /PYROLYZATE/	3250		K 260
160	FLAX WATERRETTE /BELGIUM/	2175	K 164K	K 196
680	FLUFLENE /PYROLYZATE/	5966		K 9
720	FORTISAN HIGHLY ORIENTED RAYON	1500		K 29
720	FORTISAN 36 HEAVY INDUSTRIAL	1500		K 30
680	FORTREL 7	1500	K 42K	K 74
840	GLOSPAN XE-1 /PYROLYZATE/	3525	K 198K	K 230
560	GRILON NYLON 6	4758	K 92K	K 124
160	HEMP CENTRAL EUROPEAN /POLAND/	2175	K 137K	K 169
160	HEMP MANILA	3250	K 136K	K 168
160	HEMP EUROPEAN /PYROLYZATE/	2175	K 221K	K 253
160	HEMP MANILA /PYROLYZATE/	3250	K 220K	K 252
560	HEPLON BRIGHT /PYROLYZATE/	4230	K 214K	K 246
560	HEPLON TYPE 6 NYLON BRIGHT	4230	K 52K	K 84
560	HEPLON TYPE 6 NYLON SEMI-DULL	4230	K 53K	K 85
560	HEPLON TYPE 6/6 NYLON BRIGHT	4230	K 51K	K 83
560	HEPLON TYPE 6/6 NYLON SEMIDULL	4230	K 71K	K 103
640	HOSTALEN G OLEFIN	2850	K 156K	K 188
360	INDUSTRIAL ACRYLIC	2472	K 170K	K 202
360	INDUSTRIAL ACRYLIC /PYROLYZATE/	2472		K 263
160	JUTE	3250	K 139K	K 171
160	JUTE /PYROLYZATE/	3250	K 223K	K 255
160	JUTE YARN	6545	K 20K	K 52
520	KANEKALON KCE BRIGHT	4925	K 181K	K 213
520	KANEKALON KCP DULL	4925	K 182K	K 214
520	KANEKALON KCP DULL /PYROLYZATE/	4925		K 283
680	KODEL III SD /PYROLYZATE/	8950	K 211K	K 243
680	KODEL TYPE II	8950	K 10K	K 31
560	KOLON NYLON FILAMENT SEMI-DULL	2310	K 131K	K 163
720	KOLORBON - BRIGHT RAYON /DYED/	129	K 76K	K 108
760	LACTRON CORE /PYROLYZATE/	6770		K 295
320	LANSIL ACETATE	5365	K 133K	K 165
640	LEVILENE /PYROLYZATE/	7362	K 212K	K 244
640	LEVILENE TYPE 4/PA OLEFIN	7362	K 154K	K 186
720	LIRELLE	1880	K 77K	K 109
840	LYCRA SPANDEX	2570		K 33

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FIBERS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
160	MANILA HEMP	3250	K 136K	K 168
160	MANILA HEMP /PYROLYZATE/	3250	K 220K	K 252
640	MARVESS POLYPROPYLENE YARN	55	K 147K	K 179
640	MERAKLON-FIOCCO POLYPROPYLENE	1553	K 190K	K 222
640	MERAKLON-TOP POLYPROPYLENE	1553	K 191K	K 223
560	MISRYNOL /PYROLYZATE/	8531		K 13
720	MISROFIBER /PYROLYZATE/	8531		K 15
440	MODIGLASS CRFM GLASS FIBER	7630	K 26K	K 58
440	MODIGLASS SSM GLASS FIBER	7630	K 83K	K 115
440	MODIGLASS VEIL GLASS FIBER	7630	K 27K	K 59
640	MOPLEN OLEFIN	6545	K 153K	K 185
960	MOVIL N /PYROLYZATE/	1553		K 268
960	MOVIL N POLYVINYL CHLORIDE	1553	K 75K	K 107
640	NEORAFIA	7980	K 193K	K 225
560	NIRLON NYLON 6 MONOFILAMENT	6812	K 120K	K 152
560	NIVION NYLON 6 BRIGHT	205	K 57K	K 89
560	NIVION NYLON 6 SEMI-DULL STAPLE	205	K 56K	K 88
560	NIVION SEMI-DULL /PYROLYZATE/	205	K 209K	K 241
560	NOPALON NYLON 6	7707	K 32K	K 64
720	NUPRON SEE FIBER 24	6425	K 78K	K 110
680	NYCRON COPOLYMER POLYESTER	8875	K 43K	K 75
560	NYLEX	7370		K 48
560	NYLON TEXTILE FIBER TYPE 6	9236	K 58K	K 90
560	NYLON TYPE 6 YARN DULL	1880	K 33K	K 65
560	NYLON YARN SEMI-DULL	9145	K 99K	K 131
560	NYLON 6	8135	K 96K	K 128
560	NYLON 6 /PYROLYZATE/	9135		K 16
560	NYLON 6 STAPLE /BEAUNIT/	110	K 69K	K 101
560	NYLON 6.6 FILAMENT FII	1500	K 31K	K 63
560	NYLON 6.6 /PYROLYZATE/	8555	K 215K	K 247
560	NYTELLE TEXTILE NYLON FIBER	2950	K 34K	K 66
360	ORLON TYPE 42 REGULAR STD.	2570	K 5K	K 12
560	PERLON DULL NYLON 6	4320	K 65K	K 97
560	PERLON NYLON 6	534	K 97K	K 129
560	PERLON BRIGHT /PYROLYZATE/	2850		K 289
560	PERLON BRIGHT /PYROLYZATE/	7305	K 197K	K 229
560	PERLON BRIGHT NYLON 6	4320	K 66K	K 98
560	PERLON DULL /PYROLYZATE/	2850		K 288
560	PERLON POLYAMIDE 6 BRIGHT	7305	K 132K	K 164
560	PERLON T DULL NYLON FIBER	4320	K 67K	K 99
560	PERLON TO 45/G DULL PYROLYZATE	2850		K 291
120	PERU PRIMA COTTON	1550		K 7
640	PEX POLYETHYLENE	7370	K 19K	K 49
560	POLIAFIL NYLON 6 MONOFILAMENT	8075	K 81K	K 113
560	POLIAFIL NYLON 6.6 MONOFILAMENT	8075	K 35K	K 67
640	POLYCREST OLEFIN FIBER	9180	K 184K	K 216
680	POLYESTER STAPLE /PYROLYZATE/	1825	K 200K	K 232
680	POLYESTER TYPE 104	170	K 72K	K 104
680	POLYESTER TYPE 400 STAPLE	1500	K 44K	K 76
680	POLYESTER TYPE 460 STAPLE	1500	K 45K	K 77
640	POLYETHYLENE TYPE W-1	9236	K 195K	K 227
640	POLYETHYLENE W-1 /PYROLYZATE/	9236	K 207K	K 239
640	POLYETHYLENE W-15 MONOFILAMENT	9236	K 150K	K 182
640	POLYETHYLENE W-22	9236	K 194K	K 226
720	POLYNOSIC FIBRE	9145	K 178K	K 210
640	POLYPROPYLENE /PYROLYZATE/	1825	K 217K	K 249
640	POLYPROPYLENE STAPLE	9236	K 145K	K 177
640	POLYPROPYLENE STAPLE FIBER	1825	K 159K	K 191
640	POLYPROPYLENE 800 SERIES	7605	K 40K	K 72
440	PPG FIBER GLASS 1062 ROVING	7350	K 28K	K 60
680	PRIMEL HOMOPOLYMER POLYESTER	8875	K 46K	K 78
560	QULON INDUSTRIAL YARN NYLON 66	110	K 68K	K 100
040	RAW WOOL, DEVON FLEECES	8880		K 19
360	REDON DULL /PYROLYZATE/	7305		K 287
600	REDON SEMI-BRIGHT /PYROLYZATE/	7305	K 216K	K 248
760	RHEEFLEX RUBBER /PYROLYZATE/	7810	K 204K	K 236
320	RHODIA ITALIA WHITE ACETATE	7707	K 24K	K 56
320	RHODIA ITALIA YELLOW ACETATE	7707	K 25K	K 57
960	RHOVYL T /PYROLYZATE/	8532	K 225K	K 257

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FIBERS, PRISM & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
960	RHOVYL T POLYVINYL CHLORIDE	8532	K 141K	K 173
960	RHOVYL 55 POLYVINYL CHLORIDE	8532	K 88K	K 120
800	ROVANA	2470		K 36
800	ROVANA NATURAL SARAN	2472	K 188K	K 220
640	SAILENE	7980	K 146K	K 178
560	SAIRLON H	7980	K 94K	K 126
560	SAIRLON HH	7980	K 109K	K 141
800	SARAN	345	K 152K	K 184
800	SARAN 2N	8060		K 34
800	SARAN 3Q	8060		K 35
800	SARAN 37S	9236	K 192K	K 224
800	SARAN 9000R MONOFILAMENT	9236	K 7K	K 18
040	SCOURED WOOL, OHIO DELAINE	1550		K 6
560	SETOBE NYLON 66	7707	K 36K	K 68
990	SHALON /PYROLYZATE/	7370	K 219K	K 251
990	SHALON POLYSTYRENE FIBER	7370		K 50
560	SHOEFLX	8555	K 116K	K 148
640	SHOLEX POLYETHYLENE FIBER	8360		K 51
040	SILK /PYROLYZATE/	6803		K 262
040	SILK /NOIL/	6803	K 9K	K 23
040	SILK /SPUN/	6803	K 167K	K 199
200	SISAL	3250	K 140K	K 172
200	SISAL	8650	K 138K	K 170
200	SISAL /PYROLYZATE/	3250	K 224K	K 256
200	SISAL /PYROLYZATE/	8650	K 222K	K 254
200	SISAL INDONESIA	2175	K 171K	K 203
560	SOD NYLON 6,6	8555	K 118K	K 150
560	SOD S-3 NYLON 6	8555	K 117K	K 149
560	SOOFLEX NYLON 6	8555	K 115K	K 147
720	STRATA SLUB RAYON	110		K 1
680	SUDACRON I HOMOPOLYMER	8875	K 47K	K 79
680	SUDACRON II STAPLE POLYESTER	8875	K 48K	K 80
560	SUPERFLEX NYLON 6	8555	K 122K	K 154
720	SWELAN BRIGHT /PYROLYZATE/	8858		K 11
990	TEFLON TFE FIBER	2570		K 37
520	TEKLAN MODACRYLIC	1886	K 172K	K 204
680	TERYLENE /PYROLYZATE/	4650		K 265
680	TERYLENE POLYESTER	4650	K 130K	K 162
680	TETORON SPUN YARN POLYESTER	1885	K 12K	K 38
960	TEVIRON FILAMENT YARN BRIGHT	1885	K 13K	K 39
960	TEVIRON STAPLE SEMI-DULL	1885	K 175K	K 207
560	TEXTILION BRIGHT NYLON 6	8998	K 110K	K 142
560	TEXTILION SEMI-DULL NYLON 6	8998	K 93K	K 125
720	TOPEL	1880		K 40
680	TREVIRA B BRIGHT /PYROLYZATE/	2850		K 297
680	TREVIRA B BRIGHT POLYESTER	4320	K 113K	K 145
680	TREVIRA B DULL /PYROLYZATE/	2850		K 286
680	TREVIRA B DULL POLYESTER	4320	K 114K	K 146
680	TREVIRA BA BRIGHT /PYROLYZATE/	2850		K 294
680	TREVIRA BA BRIGHT POLYESTER	4320	K 59K	K 91
680	TREVIRA BA DULL /PYROLYZATE/	2850		K 299
680	TREVIRA BA DULL POLYESTER	4320	K 127K	K 159
680	TREVIRA BRIGHT POLYESTER	4320	K 123K	K 155
680	TREVIRA DULL POLYESTER	4320	K 121K	K 153
680	TREVIRA W BRIGHT /PYROLYZATE/	2850		K 298
680	TREVIRA W BRIGHT POLYESTER	4320	K 105K	K 137
680	TREVIRA W DULL /PYROLYZATE/	2850		K 300
680	TREVIRA W DULL POLYESTER	4320	K 106K	K 138
680	TREVIRA WA BRIGHT /PYROLYZATE/	2850		K 281
680	TREVIRA WA BRIGHT POLYESTER	4320	K 101K	K 133
560	TREVIRA WA DULL /PYROLYZATE/	2850		K 26
680	TREVIRA WA DULL POLYESTER	4320	K 104K	K 136
560	TREVIRA 45/25/800 BRIGHT /PYROLYZATE/	2850		K 25
880	TRICEL TRIACETATE YARN BRIGHT	1031	K 155K	K 187
640	TUFF-LITE OLEFIN FIBER	4690	K 186K	K 218
720	TYRON RAYON TIRE CORD FIBER	6425	K 183K	K 215
640	ULSTRON POLYPROPYLENE	4650	K 144K	K 176
560	VANYLON BRIGHT NYLON 6	9215	K 37K	K 69

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FIBERS, PRISM, & GRATING ALPHABETICAL INDEX, INFRARED

CLASS		MFG CODE	GRATING	PRISM
560	VANYLON DULL NYLON 6	9215	K 39K	K 71
560	VANYLON SEMI-DULL NYLON 6	9215	K 38K	K 70
520	VEREL A BRIGHT /PYROLYZATE/	8950	K 213K	K 245
520	VEREL C BRIGHT /PYROLYZATE/	8950		K 296
680	VEREL TYPE A NATURAL BRIGHT	8950	K 14K	K 41
680	VEREL TYPE B NATURAL BRIGHT	8950	K 15K	K 42
680	VEREL TYPE C NATURAL BRIGHT	8950	K 102K	K 134
680	VEREL TYPE D NATURAL BRIGHT	8950	K 50K	K 82
160	VICARA FIBER TOW BRIGHT	9300		K 20
160	VICARA FIBER TOW DULL	9300		K 21
720	VILLWYTE /PYROLYZATE/	6425		K 264
720	VILLWYTE RAYON FIBER	6425	K 177K	K 209
920	VINAL POLYVINYL ALCOHOL FIBER	80		K 27
920	VINAL POLYVINYL ALCOHOL FIBER	80	K 180K	K 212
800	VINYLDENE CHLORIDE FILAMENT	2950		K 46
960	VINYON HH	170	K 16K	K 43
640	VISLENE	7980	K 148K	K 180
440	VITRO-STRAND G FIBER GLASS	4769	K 179K	K 211
640	VOPLEX POLYPROPYLENE PP 679A	9308	K 187K	K 219
800	VOPLEX VINYL MONOFILAMENT VC821	9308	K 189K	K 221
680	VYCRON TOUGH STUFF	110	K 125K	K 157
680	VYCRON TOUGH STUFF /PYROLYZATE/	110		K 290
680	VYCRON TYPE 2 POLYESTER	110	K 107K	K 139
680	VYCRON TYPE 5 POLYESTER	110	K 108K	K 140
680	VYCRON TYPE 11 /PYROLYZATE/	110		K 293
680	VYCRON TYPE 11 POLYESTER	110	K 126K	K 158
680	VYCRON TYPE 12 /PYROLYZATE/	110	K 201K	K 233
680	VYCRON TYPE 12 POLYESTER	110	K 129K	K 161
680	VYCRON TYPE 13 POLYESTER	110	K 90K	K 122
680	VYCRON TYPE 2 /PYROLYZATE/	110		K 292
680	VYCRON TYPE 5 /PYROLYZATE/	110		K 278
840	VYRENE SPANDEX /PYROLYZATE/	9180	K 203K	K 235
560	WELLON NYLON TYPE 6,6 FIBER	6805	K 80K	K 112
040	WOOL IRISH SKIN	2175	K 142K	K 174
040	WOOL IRISH SKIN /PYROLYZATE/	2175		K 259
360	ZEFRAN 100 DYEABLE ACRYLIC	2472	K 17K	K 44
360	ZEFRAN 200 DYEABLE ACRYLIC	2472	K 18K	K 45

SADTLER COMMERCIAL SPECTRA
FIBERS, PRISM & GRATING CLASS INDEX, INFRARED

		MFG CODE	GRATING	PRISM
40	ANIMAL FIBER			
	RAW WOOL, DEVON FLEECES	8880		K 19
	SCoured WOOL, OHIO DELAINE	1550		K 6
	SILK /PYROLYZATE/	6803		K 262
	SILK /NOIL/	6803	K 9K	K 23
	SILK /SPUN/	6803	K 167K	K 199
	WOOL IRISH SKIN	2175	K 142K	K 174
	WOOL IRISH SKIN /PYROLYZATE/	2175		K 259
120	SEED FIBER			
	COTTON FIBERS /ABSORBENT/	4790		K 17
	EGYPT KARNAK COTTON	1550		K 5
	PERU PRIMA COTTON	1550		K 7
160	BAST FIBER			
	ABACA	3250	K 136K	K 168
	ABACA /PYROLYZATE/	3250	K 220K	K 252
	FLAX	3250	K 165K	K 197
	FLAX /PYROLYZATE/	3250		K 260
	FLAX WATERRETTED /BELGIUM/	2175	K 164K	K 196
	HEMP CENTRAL EUROPEAN /POLAND/	2175	K 137K	K 169
	HEMP MANILA	3250	K 136K	K 168
	HEMP EUROPEAN /PYROLYZATE/	2175	K 221K	K 253
	HEMP MANILA /PYROLYZATE/	3250	K 220K	K 252
	JUTE	3250	K 139K	K 171
	JUTE /PYROLYZATE/	3250	K 223K	K 255
	JUTE YARN	6545	K 20K	K 52
	MANILA HEMP	3250	K 136K	K 168
	MANILA HEMP /PYROLYZATE/	3250	K 220K	K 252
	VICARA FIBER TOW BRIGHT	9300		K 20
	VICARA FIBER TOW DULL	9300		K 21
200	LEAF FIBER			
	SISAL	3250	K 140K	K 172
	SISAL	8650	K 138K	K 170
	SISAL /PYROLYZATE/	8650	K 222K	K 254
	SISAL /PYROLYZATE/	3250	K 224K	K 256
	SISAL INDONESIA	2175	K 171K	K 203
240	MINERAL FIBER			
	ASBESTOS KB-483-4T CHRYSOTILE	346	K 168K	K 200
300	MISCELLANEOUS NATURAL FIBER			
	COCONUT FIBER	8650	K 135K	K 167
	COCONUT FIBER /PYROLYZATE/	8650		K 258
	COIR CEYLON COCONUT FIBER	2175	K 166K	K 198
	COIR YARN /PYROLYZATE/	2175		K 261
320	ACETATE			
	ACELE TYPE C ACETATE YARN	2570	K 149K	K 181
	ACETATE-F STAPLE BRIGHT	1500	K 22K	K 54
	ACETATE-K STAPLE DULL	1500	K 23K	K 55
	ALBENE ITALIA	7707	K 87K	K 119
	BRISTRAND /PYROLYZATE/	7370	K 196K	K 228
	CELAFIBRE STAPLE DULL ACETATE	1031	K 21K	K 53
	CELANESE ACETATE 3W LUSTER	1500		K 4
	CELLULOSE ACETATE	5365	K 133K	K 165
	CHROMSPUN ACETATE FILAMENT	8950	K 86K	K 118
	CHROMSPUN ACETATE /PYROLYZATE/	8950		K 269
	CHROMSPUN LOFTURA	8950	K 85K	K 117
	CHROMSPUN TYPE 50 ACETATE	8950	K 84K	K 116
	DICEL ACETATE YARN	1031	K 157K	K 189
	ESTRON NO.10 BRIGHT	8950	K 151K	K 183
	ESTRON TYPE 88 ACETATE	8950	K 6K	K 14
	ESTRON 10 BRIGHT /PYROLYZATE/	8950	K 210K	K 242
	LANSIL ACETATE	5365	K 133K	K 165
	RHODIA ITALIA WHITE ACETATE	7707	K 24K	K 56
	RHODIA ITALIA YELLOW ACETATE	7707	K 25K	K 57

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FIBERS, PRISM & GRATING

CLASS INDEX, INFRARED

		MFG CODE	GRATING	PRISM
360	ACRYLIC			
	ACRILAN TYPE 70 /PYROLYZATE/	6540	K 199K	K 231
	ACRILAN 36 ACRYLIC FIBER	1570	K 3K	K 8
	ACRYLAN TYPE 77 /PYROLYZATE/	1570		K 276
	CRESLAN TYPE 58 ACRYLIC FIBER	160	K 1K	K 2
	CRESLAN TYPE 61 /PYROLYZATE/	160		K 271
	CRESLAN TYPE 61 ACRYLIC FIBER	160	K 49K	K 81
	EUROACRIL ACRYLIC SEMI-DULL	205	K 173K	K 205
	EUROACRIL SEMI-DULL PYROLYZATE	205		K 284
	INDUSTRIAL ACRYLIC	2472	K 170K	K 202
	INDUSTRIAL ACRYLIC /PYROLYZATE/	2472		K 263
	ORLON TYPE 42 REGULAR STD.	2570	K 5K	K 12
	REDON DULL /PYROLYZATE/	7305		K 287
	ZEFRAN 100 DYEABLE ACRYLIC	2472	K 17K	K 44
	ZEFRAN 200 DYEABLE ACRYLIC	2472	K 18K	K 45
400	AZLON			
	CALCIUM ALGINATE	1886	K 174K	K 206
	FIBROLANE	1886	K 176K	K 208
440	GLASS, CERAMIC			
	AVCERAM SINTERABLE CERAMIC	170	K 169K	K 201
	MODIGLASS CRFM GLASS FIBER	7630	K 26K	K 58
	MODIGLASS SSM GLASS FIBER	7630	K 83K	K 115
	MODIGLASS VEIL GLASS FIBER	7630	K 27K	K 59
	PPG FIBER GLASS 1062 ROVING	7350	K 28K	K 60
	VITRO-STRAND G FIBER GLASS	4769	K 179K	K 211
520	MODACRYLIC			
	DYNEL TYPE 180 MODACRYLIC	1400	K 2K	K 3
	KANEKALON KCE BRIGHT	4925	K 181K	K 213
	KANEKALON KCP DULL	4925	K 182K	K 214
	KANEKALON KCP DULL /PYROLYZATE/	4925		K 283
	TEKLAN MODACRYLIC	1886	K 172K	K 204
	VEREL A BRIGHT /PYROLYZATE/	8950	K 213K	K 245
	VEREL C BRIGHT /PYROLYZATE/	8950		K 296
560	NYLON			
	ANTRON TYPE 860 NYLON	2570	K 60K	K 92
	ANTRON 24 TEXTURED NYLON YARN	2570	K 64K	K 96
	BLUE C NYLON TYPE 66	6540	K 11K	K 32
	BRI-NYLON /PYROLYZATE/	4650		K 282
	BRI-NYLON TYPE 66	4650	K 55K	K 87
	CANTRECE TYPE 880 /PYROLYZATE/	2570		K 279
	CANTRECE TYPE 880 NYLON	2570	K 63K	K 95
	CAPROLAN SD /PYROLYZATE/	120	K 208K	K 240
	CAPROLAN SD SEMI-DULL NYLON 6	120	K 54K	K 86
	CELON NYLON 6	1886	K 111K	K 143
	CIFALON 30/6 1/2 MATE SEMIDULL	1596	K 100K	K 132
	CIFALON 40/9 ULTRA-MATE DULL	1596	K 119K	K 151
	CIFALON 40/9 1/2 MATE SEMIDULL	1596	K 124K	K 156
	CREPESET - SEMI-DULL NYLON 6	129	K 98K	K 130
	DECALON POLYAMIDE	7707	K 29K	K 61
	DELFION NYLON 6 STAPLE	900	K 91K	K 123
	ENKA NYLON BRIGHT /PYROLYZATE/	129		K 274
	ENKA NYLON REGULAR TENACITY /6/	129	K 95K	K 127
	ENKALOFT - SEMI-BRIGHT NYLON 6	129	K 62K	K 94
	ENKALON NYLON 6	119	K 112K	K 144
	ENKALURE - BRIGHT NYLON 6	129	K 82K	K 114
	ENKATRON - SEMI-BRIGHT NYLON 6	129	K 61K	K 93
	ENKATRON SEMI-BRIGHT PYROLYZATE	129		K 273
	F II NYLON 6.6 FILAMENT	1500	K 31K	K 63
	FABELNYL BRILLIANT NYLON 66	9145	K 103K	K 135
	FABELNYL SEMI-DULL NYLON 66	9145	K 89K	K 121
	FIRESTONE NYLON /PYROLYZATE/	2950		K 285
	FIRESTONE NYLON MONOFILAMENT	2950	K 30K	K 62
	GRILON NYLON 6	4758	K 92K	K 124
	HEPLON BRIGHT /PYROLYZATE/	4230	K 214K	K 246

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FIBERS, PRISM & GRATING

CLASS INDEX, INFRARED

	MFG CODE	GRATING	PRISM
HEPLON TYPE 6 NYLON BRIGHT	4230	K 52K	K 84
HEPLON TYPE 6 NYLON SEMI-DULL	4230	K 53K	K 85
HEPLON TYPE 6/6 NYLON BRIGHT	4230	K 51K	K 83
HEPLON TYPE 6/6 NYLON SEMIDULL	4230	K 71K	K 103
KOLON NYLON FILAMENT SEMI-DULL	2310	K 131K	K 163
MISRYNOL /PYROLYZATE/	8531		K 13
NIRLON NYLON 6 MONOFILAMENT	6812	K 120K	K 152
NIVION NYLON 6 BRIGHT	205	K 57K	K 89
NIVION NYLON 6 SEMI-DULL STAPLE	205	K 56K	K 88
NIVION SEMI-DULL /PYROLYZATE/	205	K 209K	K 241
NOPALON NYLON 6	7707	K 32K	K 64
NYLEX	7370		K 48
NYLON TEXTILE FIBER TYPE 6	9236	K 58K	K 90
NYLON TYPE 6 YARN DULL	1880	K 33K	K 65
NYLON YARN SEMI-DULL	9145	K 99K	K 131
NYLON 6	8135	K 96K	K 128
NYLON 6 /PYROLYZATE/	9135		K 16
NYLON 6 STAPLE /BEAUNIT/	110	K 69K	K 101
NYLON 6.6 FILAMENT FII	1500	K 31K	K 63
NYLON 6.6 /PYROLYZATE/	8555	K 215K	K 247
NYTELLE TEXTILE NYLON FIBER	2950	K 34K	K 66
PERLON DULL NYLON 6	4320	K 65K	K 97
PERLON NYLON 6	534	K 97K	K 129
PERLON BRIGHT /PYROLYZATE/	2850		K 289
PERLON BRIGHT /PYROLYZATE/	7305	K 197K	K 229
PERLON BRIGHT NYLON 6	4320	K 66K	K 98
PERLON DULL /PYROLYZATE/	2850		K 288
PERLON POLYAMIDE 6 BRIGHT	7305	K 132K	K 164
PERLON T DULL NYLON FIBER	4320	K 67K	K 99
PERLON TD 45/G DULL PYROLYZATE	2850		K 291
POLIAFIL NYLON 6 MONOFILAMENT	8075	K 81K	K 113
POLIAFIL NYLON 6.6 MONOFILAMENT	8075	K 35K	K 67
QULON INDUSTRIAL YARN NYLON 66	110	K 68K	K 100
SAIRLON H	7980	K 94K	K 126
SAIRLON HH	7980	K 109K	K 141
SETOBE NYLON 66	7707	K 36K	K 68
SHOEFLEX	8555	K 116K	K 148
SOO NYLON 6.6	8555	K 118K	K 150
SOO S-3 NYLON 6	8555	K 117K	K 149
SOOFLEX NYLON 6	8555	K 115K	K 147
SUPERFLEX NYLON 6	8555	K 122K	K 154
TEXTILION BRIGHT NYLON 6	8998	K 110K	K 142
TEXTILION SEMI-DULL NYLON 6	8998	K 93K	K 125
TREVIRA WA DULL /PYROLYZATE/	2850		K 26
TREVIRA 45/25/800 BRIGHT /PYROLYZATE/	2850		K 25
VANYLON BRIGHT NYLON 6	9215	K 37K	K 69
VANYLON DULL NYLON 6	9215	K 39K	K 71
VANYLON SEMI-DULL NYLON 6	9215	K 38K	K 70
WELLON NYLON TYPE 6.6 FIBER	6805	K 80K	K 112
600 NYTRIL			
ALGIL /PYROLYZATE/	7370	K 218K	K 250
DARVAN	3560		K 24
REDON SEMI-BRIGHT /PYROLYZATE/	7305	K 216K	K 248
640 OLEFIN			
BEXYARN HD 1 /PYROLYZATE/	1130		K 277
BEXYARN HD 1 POLYETHYLENE	1130	K 185K	K 217
BOLTALEN POLYETHYLENE	895	K 163K	K 195
BOLTALEN P /PYROLYZATE/	895		K 280
BOLTALEN P POLYPROPYLENE	895	K 143K	K 175
COURLENE PY	1886	K 161K	K 193
COURLENE X3	1886	K 160K	K 192
DLP 57-509 POLYPROPYLENE	3700	K 158K	K 190
HOSTALEN G OLEFIN	2850	K 156K	K 188
LEVILENE /PYROLYZATE/	7362	K 212K	K 244
LEVILENE TYPE 4/PA OLEFIN	7362	K 154K	K 186
MARVESS POLYPROPYLENE YARN	55	K 147K	K 179

SADTLER COMMERCIAL SPECTRA

FIBERS, PRISM & GRATING

CLASS INDEX, INFRARED

		MFG CODE	GRATING	PRISM
	MERAKLON-FIOCCO POLYPROPYLENE	1553	K 190K	K 222
	MERAKLON-TOP POLYPROPYLENE	1553	K 191K	K 223
	MOPLEN OLEFIN	6545	K 153K	K 185
	NEORAFIA	7980	K 193K	K 225
	PEX POLYETHYLENE	7370	K 19K	K 49
	POLYCREST OLEFIN FIBER	9180	K 184K	K 216
	POLYETHYLENE TYPE W-1	9236	K 195K	K 227
	POLYETHYLENE W-1 /PYROLYZATE/	9236	K 207K	K 239
	POLYETHYLENE W-15 MONOFILAMENT	9236	K 150K	K 182
	POLYETHYLENE W-22	9236	K 194K	K 226
	POLYPROPYLENE /PYROLYZATE/	1825	K 217K	K 249
	POLYPROPYLENE STAPLE	9236	K 145K	K 177
	POLYPROPYLENE STAPLE FIBER	1825	K 159K	K 191
	POLYPROPYLENE 800 SERIES	7605	K 40K	K 72
	SAILENE	7980	K 146K	K 178
	SHOLEX POLYETHYLENE FIBER	8360		K 51
	TUFF-LITE OLEFIN FIBER	4690	K 186K	K 218
	ULSTRON POLYPROPYLENE	4650	K 144K	K 176
	VISLENE	7980	K 148K	K 180
	VOPLEX POLYPROPYLENE PP 679A	9308	K 187K	K 219
680	POLYESTER			
	ACROCEL COPOLYMER POLYESTER	8875	K 41K	K 73
	AVLIN SEE FIBER 200	170	K 72K	K 104
	BLUE C POLYESTER	1570	K 134K	K 166
	BLUE C POLYESTER /PYROLYZATE/	1570		K 275
	DACRON TYPE 54 /PYROLYZATE/	2570		K 266
	DACRON TYPE 54 REGULAR	2570	K 4K	K 11
	DACRON TYPE 62 POLYESTER	2570	K 128K	K 160
	DACRON 62 SEMI-DULL /PYROLYZATE/	2570	K 202K	K 234
	ENCRON - SEMI-DULL POLYESTER	129	K 73K	K 105
	ENKA POLYESTER /PYROLYZATE/	129		K 272
	ENKA POLYESTER HIGH TENACITY	129	K 70K	K 102
	ENKA POLYESTER REG. TENACITY	129	K 73K	K 105
	FIBER 200 TYPE 104 POLYESTER	170	K 72K	K 104
	FLUFLENE /PYROLYZATE/	5966		K 9
	FORTREL 7	1500	K 42K	K 74
	KODEL III SD /PYROLYZATE/	8950	K 211K	K 243
	KODEL TYPE II	8950	K 10K	K 31
	NYCRON COPOLYMER POLYESTER	8875	K 43K	K 75
	POLYESTER STAPLE /PYROLYZATE/	1825	K 200K	K 232
	POLYESTER TYPE 104	170	K 72K	K 104
	POLYESTER TYPE 400 STAPLE	1500	K 44K	K 76
	POLYESTER TYPE 460 STAPLE	1500	K 45K	K 77
	PRIMEL HOMOPOLYMER POLYESTER	8875	K 46K	K 78
	SUDACRON I HOMOPOLYMER	8875	K 47K	K 79
	SUDACRON II STAPLE POLYESTER	8875	K 48K	K 80
	TERYLENE /PYROLYZATE/	4650		K 265
	TERYLENE POLYESTER	4650	K 130K	K 162
	TETORON SPUN YARN POLYESTER	1885	K 12K	K 38
	TREVIRA B BRIGHT /PYROLYZATE/	2850		K 297
	TREVIRA B BRIGHT POLYESTER	4320	K 113K	K 145
	TREVIRA B DULL /PYROLYZATE/	2850		K 286
	TREVIRA B DULL POLYESTER	4320	K 114K	K 146
	TREVIRA BA BRIGHT /PYROLYZATE/	2850		K 294
	TREVIRA BA BRIGHT POLYESTER	4320	K 59K	K 91
	TREVIRA BA DULL /PYROLYZATE/	2850		K 299
	TREVIRA BA DULL POLYESTER	4320	K 127K	K 159
	TREVIRA BRIGHT POLYESTER	4320	K 123K	K 155
	TREVIRA DULL POLYESTER	4320	K 121K	K 153
	TREVIRA W BRIGHT /PYROLYZATE/	2850		K 298
	TREVIRA W BRIGHT POLYESTER	4320	K 105K	K 137
	TREVIRA W DULL /PYROLYZATE/	2850		K 300
	TREVIRA W DULL POLYESTER	4320	K 106K	K 138
	TREVIRA WA BRIGHT /PYROLYZATE/	2850		K 281
	TREVIRA WA BRIGHT POLYESTER	4320	K 101K	K 133
	TREVIRA WA DULL POLYESTER	4320	K 104K	K 136
	VEREL TYPE A NATURAL BRIGHT	8950	K 14K	K 41
	VEREL TYPE B NATURAL BRIGHT	8950	K 15K	K 42