



Synthetic Fibers by Microscope

Library Listing – 376 spectra

This library is highly useful for identifying fibers of varying diameters from a wide variety of products and manufacturers. The Synthetic Fibers Library contains FT-IR microscope transmission spectra of synthetic fibers from the Collaborative Testing Services Reference Collection of Synthetic Fibers.

This library consists of spectra obtained from a collaborative project between Thermo Scientific Corporation and Dr. Jay A. Siegel and his co-workers in the School of Criminal Justice at Michigan State University. All spectra were measured from pressed samples of the fibers using a Thermo FT-IR spectrometer and microscope system.

The generic name for the fiber, the manufacturer's name, the manufacturer's trade name, the fiber identification number assigned by CTS, the diameter and appearance of the fiber, and the manufacture code of the fiber are available.

Synthetic Fibers by Microscope

<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
10	ACETATE	79	NYLON
11	ACETATE	110	NYLON
2	ACETATE	111	NYLON
12	ACETATE	64	NYLON
4	ACETATE	112	NYLON
13	ACETATE	66	NYLON
6	ACETATE	113	NYLON
14	ACETATE	68	NYLON
8	ACETATE	114	NYLON
15	ACETATE	70	NYLON
348	ACETATE	115	NYLON
16	ACETATE	72	NYLON
5	ACETATE	116	NYLON
17	ACETATE	74	NYLON
9	ACETATE	117	NYLON
18	ACETATE	76	NYLON
7	ACETATE	118	NYLON
19	ACETATE	78	NYLON
3	ACETATE	119	NYLON
1	ACETATE	80	NYLON
30	ACRYLIC	120	NYLON
39	ACRYLIC	82	NYLON
354	ACRYLIC	121	NYLON
22	ACRYLIC	84	NYLON
24	ACRYLIC	122	NYLON
20	ACRYLIC	86	NYLON
26	ACRYLIC	123	NYLON
23	ACRYLIC	88	NYLON
25	ACRYLIC	44	NYLON
29	ACRYLIC	90	NYLON
27	ACRYLIC	45	NYLON
31	ACRYLIC	92	NYLON
28	ACRYLIC	47	NYLON
33	ACRYLIC	95	NYLON
337	ACRYLIC	48	NYLON
35	ACRYLIC	97	NYLON
338	ACRYLIC	49	NYLON
339	ACRYLIC	99	NYLON
340	ACRYLIC	50	NYLON
353	ACRYLIC	101	NYLON
21	ACRYLIC	51	NYLON
34	ACRYLIC	103	NYLON
349	ACRYLIC	52	NYLON
32	ACRYLIC	105	NYLON
350	ACRYLIC	53	NYLON
352	ACRYLIC	107	NYLON
351	ACRYLIC	54	NYLON
37	ARAMID	109	NYLON
38	ARAMID	55	NYLON
36	ARAMID	65	NYLON
355	ARAMID	56	NYLON
334	FLUOROCARBON	69	NYLON
347	FLUOROCARBON	57	NYLON
335	FLUOROCARBON	73	NYLON
346	FLUOROCARBON	58	NYLON
345	FLUOROCARBON	77	NYLON
41	MODACRYLIC	59	NYLON
40	MODACRYLIC	81	NYLON
43	MODACRYLIC	60	NYLON
42	MODACRYLIC	85	NYLON

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<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
61	NYLON	136	OLEFIN
89	NYLON	181	OLEFIN
62	NYLON	137	OLEFIN
94	NYLON	183	OLEFIN
356	NYLON	138	OLEFIN
98	NYLON	185	OLEFIN
357	NYLON	139	OLEFIN
102	NYLON	187	OLEFIN
358	NYLON	140	OLEFIN
106	NYLON	190	OLEFIN
359	NYLON	141	OLEFIN
63	NYLON	93	OLEFIN
360	NYLON	142	OLEFIN
71	NYLON	160	OLEFIN
361	NYLON	143	OLEFIN
372	NYLON	164	OLEFIN
362	NYLON	144	OLEFIN
87	NYLON	168	OLEFIN
363	NYLON	145	OLEFIN
96	NYLON	172	OLEFIN
364	NYLON	146	OLEFIN
104	NYLON	176	OLEFIN
365	NYLON	147	OLEFIN
67	NYLON	180	OLEFIN
366	NYLON	148	OLEFIN
83	NYLON	184	OLEFIN
367	NYLON	149	OLEFIN
100	NYLON	189	OLEFIN
368	NYLON	150	OLEFIN
75	NYLON	158	OLEFIN
369	NYLON	151	OLEFIN
108	NYLON	166	OLEFIN
370	NYLON	152	OLEFIN
91	NYLON	174	OLEFIN
371	NYLON	153	OLEFIN
188	OLEFIN	182	OLEFIN
124	OLEFIN	154	OLEFIN
376	OLEFIN	157	OLEFIN
125	OLEFIN	155	OLEFIN
159	OLEFIN	170	OLEFIN
126	OLEFIN	156	OLEFIN
161	OLEFIN	186	OLEFIN
127	OLEFIN	373	OLEFIN
163	OLEFIN	178	OLEFIN
128	OLEFIN	374	OLEFIN
165	OLEFIN	162	OLEFIN
129	OLEFIN	375	OLEFIN
167	OLEFIN	266	POLYESTER
130	OLEFIN	302	POLYESTER
169	OLEFIN	303	POLYESTER
131	OLEFIN	230	POLYESTER
171	OLEFIN	288	POLYESTER
132	OLEFIN	228	POLYESTER
173	OLEFIN	289	POLYESTER
133	OLEFIN	234	POLYESTER
175	OLEFIN	290	POLYESTER
134	OLEFIN	236	POLYESTER
177	OLEFIN	291	POLYESTER
135	OLEFIN	238	POLYESTER
179	OLEFIN	292	POLYESTER

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<u>Index</u>	<u>Compound Name</u>	<u>Index</u>	<u>Compound Name</u>
240	POLYESTER	257	POLYESTER
293	POLYESTER	206	POLYESTER
242	POLYESTER	261	POLYESTER
294	POLYESTER	207	POLYESTER
244	POLYESTER	265	POLYESTER
295	POLYESTER	208	POLYESTER
246	POLYESTER	269	POLYESTER
296	POLYESTER	209	POLYESTER
248	POLYESTER	273	POLYESTER
297	POLYESTER	210	POLYESTER
250	POLYESTER	277	POLYESTER
298	POLYESTER	211	POLYESTER
252	POLYESTER	283	POLYESTER
299	POLYESTER	212	POLYESTER
254	POLYESTER	287	POLYESTER
300	POLYESTER	213	POLYESTER
256	POLYESTER	239	POLYESTER
301	POLYESTER	214	POLYESTER
258	POLYESTER	247	POLYESTER
229	POLYESTER	215	POLYESTER
260	POLYESTER	255	POLYESTER
231	POLYESTER	216	POLYESTER
262	POLYESTER	263	POLYESTER
232	POLYESTER	217	POLYESTER
264	POLYESTER	271	POLYESTER
191	POLYESTER	218	POLYESTER
46	POLYESTER	281	POLYESTER
192	POLYESTER	219	POLYESTER
268	POLYESTER	235	POLYESTER
336	POLYESTER	220	POLYESTER
270	POLYESTER	251	POLYESTER
193	POLYESTER	221	POLYESTER
272	POLYESTER	267	POLYESTER
194	POLYESTER	222	POLYESTER
274	POLYESTER	285	POLYESTER
195	POLYESTER	223	POLYESTER
276	POLYESTER	259	POLYESTER
196	POLYESTER	224	POLYESTER
278	POLYESTER	243	POLYESTER
279	POLYESTER	225	POLYESTER
227	POLYESTER	275	POLYESTER
280	POLYESTER	226	POLYESTER
282	POLYESTER	342	POLYESTER/CELLULOSE
197	POLYESTER		ACETATE
284	POLYESTER	343	POLYESTER/CELLULOSE
198	POLYESTER		ACETATE
286	POLYESTER	304	RAYON
199	POLYESTER	330	RAYON
233	POLYESTER	315	RAYON
200	POLYESTER	328	RAYON
237	POLYESTER	329	RAYON
201	POLYESTER	318	RAYON
241	POLYESTER	316	RAYON
202	POLYESTER	320	RAYON
245	POLYESTER	317	RAYON
203	POLYESTER	322	RAYON
249	POLYESTER	305	RAYON
204	POLYESTER	324	RAYON
253	POLYESTER	306	RAYON
205	POLYESTER	326	RAYON

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307	RAYON	327	RAYON
314	RAYON	312	RAYON
308	RAYON	323	RAYON
321	RAYON	313	RAYON
309	RAYON	331	SARAN
325	RAYON	332	SARAN
310	RAYON	344	SULFAR
319	RAYON	341	TRIACETATE/POLYESTER
311	RAYON	333	VINYON