

**SCIENTIFIC POLYMER PRODUCTS, INC.**  
**6265 DEAN PARKWAY**  
**ONTARIO, NY 14519**  
**(716) 265-0413**  
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All materials are supplied for laboratory use only, not for drug or household use. Further, our products are supplied on the condition that the customer accepts responsibility for their handling and use. It is therefore recommended that these materials be handled only by qualified individuals.

The information presented herein is believed to be accurate and represents the best information currently available to us. The information has been compiled from sources considered to be dependable and is accurate to the best of the seller's knowledge. However, since the conditions of handling and use are beyond our control, we assume no liability and make no warranty whatsoever, expressed, implied, or of merchantability regarding the accuracy or completeness of such data or the results to be obtained from the use thereof.

Users should make their own investigation to determine the suitability of the information for their particular purposes and are expected to exercise reasonable care as with any other similar materials.

## **I. IDENTIFICATION**

Product: Polymer Sample Kit - Catalog Number 205

Description: Metal cabinet with 100 glass vials in plastic drawers

Contents: Polymers, as identified on the list below, 10-20 grams each

## **II. HAZARDOUS INGREDIENTS**

## **III. PHYSICAL DATA**

See Special Listing - Section X

## **IV. FIRE AND EXPLOSION DATA**

**Flash Point:** See Listing - Section X

**Extinguishing Media:** Water, CO<sub>2</sub>, dry chemical, foam

**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion Hazards:** As with similar materials, there is a dust explosion potential. Exercise care to avoid dust build-up. (US Bureau of Mines 1958 - Lower explosion limit 0.324oz/ft<sup>3</sup>; maximum explosion pressure 70-psi at 0.5oz/ft<sup>3</sup>.)

**V. HEALTH HAZARD DATA**

**Effects of Overexposure:** Under normal conditions, materials present no significant hazards to health. As with similar materials, particles can be mechanically irritating to eyes and dust may produce a dehydrative effect on skin, mucous membranes, and internal tissues.

**Emergency and First Aid Procedures:** IN ALL CASES, IF IRRITATION OR ILLNESS DEVELOPS, SEEK MEDICAL ASSISTANCE.

**Inhalation:** Remove to fresh air, assist in breathing, if required

**Eyes:** Flush thoroughly with water for 15 minutes.

**Skin:** Wash affected area with soap and water for 15 minutes.

**Ingestion:** Not a consideration in industrial usage.

**VI. REACTIVITY DATA**

**Stability:** Stable; avoid strong acids, oxidizing agents and temperature above 299EC. Hazardous polymerization will not occur.

**Hazardous Decomposition Products:** Thermal decomposition of some materials may produce irritating or toxic fumes.

**VII. SPILL OR LEAK PROCEDURES**

**Steps to be taken if material is spilled:** Sweep up spilled material and place in a suitable container for disposal.

**Waste Disposal Method:** In accordance with Local, State and Federal regulations.

**VIII. SPECIAL PROTECTION INFORMATION**

**Respiratory Protection:** Normally not required; NIOSH-approved dust mask if conditions warrant.

**Ventilation:** Local exhaust recommended.

**Protective Gloves:** Normally not required; should be used if conditions warrant.

**Eye Protection:** Safety glasses recommended as good industrial practice.

**Other Protective Equipment:** Eyebath recommended.

**MATERIAL SAFETY DATA SHEET-POLYMER SAMPLE KIT-CAT. NO. 205****IX. SPECIAL PRECAUTIONS**

**Handling and Storage:** Keep containers dry and tightly closed to avoid moisture absorption. Avoid spills and dust build-up.

**Other Precautions:** Good hygiene practice should be followed.

**X. SPECIAL LISTING**

The following data is provided as specific information on the polymers supplied in the Polymer Sample Kit, Catalog Number 205. This data is believed to be accurate and represents the best information currently available to us. Although every care has been taken in preparation of this data, we cannot accept any liability for errors.

<b>Cat#</b>	<b>Description</b>	<b>Fp</b>	<b>Specific Gravity</b>	<b>Water Soluble</b>	<b>Melting/ Softening Point</b>
001	Polyacrylamide CAS# 9003-05-8	N/A	1.302 (23EC)	Yes	210EC
002	Poly(vinyl alcohol), 99.7% hydrolyzed CAS# 9002-89-5	N/A	1.29	Yes	200EC
006	Nylon 11 [Poly(undecanoamide)] CAS# 25587-80-8	N/A	1.04	No	185EC
009	Polyacetal CAS# 25231-38-3	N/A	1.42	No	175EC
010	Poly(diallyl phthalate) CAS# 25053-15-0	N/A	1.267 (25EC)	No	85EC
011	Poly(diallyl isophthalate) CAS# 25035-78-3	N/A	1.256 (25EC)	No	76EC
012	Poly(vinyl formal) CAS# 63450-15-7	N/A	1.23 (23EC)	No	N/A
021	Zein, purified CAS# 9010-66-6	N/A	1.25 (25EC)	No	N/A
024	Poly(vinyl acetate) CAS# 9003-20-7	N/A	1.18	No	141EC
026	Poly(acrylic acid) CAS# 9003-01-4	N/A	1.41	Yes	N/A
031	Cellulose triacetate CAS# 9012-09-3	N/A	1.31	No	295EC

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032	Alginic acid, sodium salt (Algin) CAS# 9005-38-3	N/A	1.59	Yes	N/A
033	Nylon 6/6 [Poly(hexamethylene adipamide)] CAS# 32131-17-2	752EF	1.30	No	254EC
034	Nylon 6 [Poly(caprolactam)] CAS# 25038-54-4	N/A	1.14 (23EC)	No	220EC
035	Polycarbonate CAS# 111211-39-3	N/A	1.20	No	N/A
037A	Poly(methyl methacrylate) CAS# 9011-14-7	572EF	1.20 (25EC)	No	N/A
038	Poly(vinyl chloride) CAS# 9002-86-2	736EF	1.40	No	285EC
039A	Polystyrene CAS# 9003-53-6	N/A	1.05 (23EC)	No	N/A
041	Polyethylene, high density CAS# 25213-02-9	N/A	0.95 (23EC)	No	121EC
043	Poly(vinyl butyral) CAS# 27360-07-2	N/A	1.083 (23EC)	No	150EC
044	Nylon 12 [Poly(lauryllactam)] CAS# 25038-74-8	N/A	1.02	No	178EC
045A	Phenoxy resin CAS# 25068-38-6	N/A	1.18 (23EC)	No	180EC
046	Polysulfone CAS# 25154-01-2	N/A	1.24	No	230EC
049	Styrene/maleic anhydride copolymer, partial methyl ester CAS# 31959-78-1	N/A	1.27	No	220EC
051	Acrylonitrile/butadiene/styrene resin CAS# 9003-56-9	N/A	0.98 (25EC)	No	N/A
057	Styrene/butadiene, ABA block copolymer CAS# 9003-55-8	N/A	0.94	No	N/A

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058	Vinylidene chloride/vinyl chloride copolymer CAS# 9011-06-7	N/A	1.41	No	150EC
063	Vinyl chloride/vinyl acetate copolymer CAS# 9003-22-9	N/A	1.37 (20EC)	No	N/A
064	Vinyl chloride/vinyl acetate/vinyl alcohol terpolymer CAS# 25086-48-0	N/A	1.39 (20EC)	No	N/A
068	Vinyl chloride/vinyl acetate copolymer CAS# 9003-22-9	N/A	1.36 (20EC)	No	N/A
070	Vinyl chloride/vinyl acetate/maleic acid terpolymer CAS# 9005-09-8	N/A	1.33 (20EC)	No	N/A
077	Cellulose acetate butyrate CAS# 9004-36-8	N/A	1.26	No	235EC
083	Cellulose acetate CAS# 9004-35-7	N/A	1.31	No	240EC
090	Poly(phenylene sulfide) CAS# 26125-40-6	>930EF	1.36 (15.6EC)	No	285EC
102	Poly(vinylidene fluoride) CAS# 24937-79-9	N/A	1.76	No	158EC
103	Poly(vinyl stearate) CAS# 9003-95-6	N/A	<1.0	No	45EC
106	Polyisoprene, chlorinated CAS# 68441-58-7	N/A	1.63	No	N/A
107	Polyethylene, chlorosulfonated CAS# 68037-39-8	N/A	1.27 (25EC)	No	N/A
111	Poly(n-butyl methacrylate) CAS# 9003-63-8	572EF	1.07 (25EC)	No	N/A
112	Poly(isobutyl methacrylate) CAS# 9011-15-8	N/A	1.045 (20EC)	No	N/A
113	Poly(ethyl methacrylate) CAS# 9003-42-3	572EF	1.11 (25EC)	No	N/A
126	Poly(2,6-dimethyl-p-phenylene oxide) CAS# 25134-01-4	N/A	1.06	No	215EC

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128	Poly(1-butene), isotactic CAS# 25036-29-7	N/A	0.915	No	125EC
130	Polypropylene, isotactic CAS# 9003-07-0	>625EF	0.90 (23EC)	No	160EC
132	Polyvinylpyrrolidone CAS# 9003-39-8	N/A	N/A	Yes (cold)	N/A
136A	Poly(ethylene oxide) CAS# 25322-68-3	N/A	1.21	Yes	65EC
138	Poly(ethylene terephthalate) CAS# 29154-49-2	N/A	1.385	No	252EC
139	Nylon 6/10 [Poly(hexamethylene sebacamide)] CAS# 9011-52-3	N/A	1.08	No	215EC
142	Ethyl cellulose CAS# 9004-57-3	>300EF	1.14	No	157EC
144	Methyl cellulose CAS# 9004-67-5	N/A	1.39	Yes	N/A
156	Nylon 6/9 [Poly(hexamethylene azelamide)] CAS# 27136-65-8	>700EF	1.08	No	210EC
166	Poly(2,4,6-tribromostyrene) CAS# 88497-56-7	N/A	2.1	No	220EC
178	Styrene/isoprene, ABA block copolymer CAS# 25038-32-8	N/A	0.92	No	N/A
184	Polyethylene, chlorinated CAS# 64754-90-1	N/A	1.10	No	N/A
185	Polyethylene, chlorinated CAS# 64754-90-1	N/A	1.16	No	N/A
186	Polyethylene, chlorinated CAS# 64754-90-1	N/A	1.22	No	N/A
203	Poly(tetrafluoroethylene) CAS# 9002-84-0	N/A	2.00	No	327EC

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209	Butyl methacrylate/isobutyl methacrylate copolymer CAS# 9011-53-4	572EF	1.09 (25EC)	No	N/A
243	Ethylene/vinyl acetate copolymer CAS# 24937-78-8	N/A	0.932	No	N/A
244	Ethylene/vinyl acetate copolymer CAS# 24937-78-8	N/A	0.935	No	N/A
245	Ethylene/vinyl acetate copolymer CAS# 24937-78-8	N/A	0.948	No	N/A
246	Ethylene/vinyl acetate copolymer CAS# 24937-78-8	N/A	0.957	No	N/A
313	Nylon 6/12 [Poly(hexamethylene dodecanediamide)] CAS# 26098-55-5	752EF	1.30	No	250-260EC
316	Ethylene/vinyl acetate copolymer CAS# 24937-78-8	500EF	0.951 (23EC)	No	138EC
317	Methyl vinyl ether/maleic anhydride copolymer CAS# 9011-16-9	N/A	1.37	Yes	200-225EC
321	Cellulose propionate CAS# 9004-39-1	N/A	1.23	No	>125EC
324	Poly(4,4-dipropoxy-2,2-diphenyl propane fumarate)	N/A	N/A	No	N/A
326	Ethylene/vinyl acetate copolymer CAS# 24937-78-8	500EF	0.965 (23EC)	No	104EC
327	Polyethylene, chlorinated CAS# 64754-90-1	N/A	1.25	No	N/A
331	Nylon 6(3)T [Poly(trimethyl hexamethylene terephthalamide)] CAS# 25497-66-9	N/A	1.12	No	250EC
352	Poly(vinyl alcohol), 98% hydrolyzed CAS# 9002-89-5	N/A	1.29	Yes	200EC
353	Poly(vinyl chloride), carboxylated CAS# 25702-80-1	N/A	1.40	No	N/A

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358	Ethylene/propylene copolymer CAS# 9010-79-1	572EF	0.86	No	N/A
369	N-Vinylpyrrolidone/vinyl acetate copolymer CAS# 25086-89-9	N/A	1.27	Yes	N/A
374	Methyl vinyl ether/maleic acid copolymer CAS# 25153-40-6	N/A	N/A	Yes	N/A
376	Polyacrylamide, carboxyl modified, low carboxyl content	N/A	N/A	Yes	N/A
377	Polyacrylamide, carboxyl modified, high carboxyl content	N/A	N/A	Yes	N/A
381	Vinyl alcohol/vinyl butyral copolymer CAS# 27630-07-2	N/A	1.12 (20EC)	Slight	140-220EC
382	Poly(4-methyl-1-pentene) CAS# 25068-26-2	N/A	0.830	No	240EC
385	Polyamide resin CAS# 68650-48-6	>570EF	0.97 (23EC)	No	95EC
391	Poly(p-phenylene ether-sulphone) CAS# 25608-63-3	N/A	1.37	No	N/A
393	Styrene/allyl alcohol copolymer CAS# 25119-62-4	N/A	1.05 (20EC)	No	N/A
395	Vinylidene chloride/acrylonitrile copolymer CAS# 9010-76-8	N/A	1.60	No	N/A
397	Poly(alpha-methylstyrene) CAS# 25014-31-7	410EF	1.075 (16EC)	Slight	N/A
401	Hydroxypropyl cellulose CAS# 9004-64-2	N/A	N/A	Yes	130EC
405	Polyethylene, oxidized CAS# 68441-17-8	>490EF	0.93 (20EC)	No	104EC
414	Poly(2-hydroxyethyl methacrylate) CAS# 25249-16-5	N/A	1.15	No	N/A
419	Hydroxybutyl methyl cellulose CAS# 9041-56-9	N/A	N/A	No	N/A



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422	Vinyl chloride/vinyl acetate/maleic acid terpolymer CAS# 9005-09-8	N/A	1.35 (20EC)	No	100EC
423	Hydroxypropyl methyl cellulose CAS# 9004-65-3	N/A	1.39	Yes	N/A
452	Styrene/ethylene-butylene, ABA block copolymer CAS# 66070-58-4	N/A	0.91	No	N/A
454	Ethylene/ethyl acrylate copolymer CAS# 9010-86-0	N/A	0.93	No	152EC
494	Styrene/acrylonitrile copolymer CAS# 9003-54-7	716EF	1.08	No	110EC
495	Styrene/acrylonitrile copolymer CAS# 9003-54-7	716EF	1.07	No	110EC
534	Ethylene/acrylic acid copolymer CAS# 9010-77-9	>572EF	0.93	No	92EC
595	Styrene/butyl methacrylate copolymer CAS# 25213-39-2	N/A	N/A	No	N/A
642	Polypropylene, isotactic, chlorinated CAS# 68442-33-1	N/A	1.0	No	100EC
688	1,2-Polybutadiene CAS# 31567-90-5	N/A	0.91	No	90EC
911	Vinyl chloride/vinyl acetate/hydroxylpropyl acrylate terpolymer CAS# 41618-91-1	N/A	N/A	No	100EC
952	Polycaprolactone CAS# 24980-41-4	N/A	1.145 (23EC)	No	60EC

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