ECROS
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COMPLEX SOLUTIONS
OF CHEMICAL AND ANALYTICAL TASKS
IN INDUSTRY, SCIENCE
AND EDUCATION.

СДЕЛАНО
В ПЕТЕРБУРГЕ

PLASTIC
LABORATORY WARE

Catalogue 2015

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MAIN MATERIALS:

PP
polypropylene

The polypropylene laboratory ware is designed for:

- concentrated acids and alkalis dissolving;
- hot filtering without preliminary warming up of filtering funnels;
- preparation of solutions and an analysis of samples with the low contents of chloride- and sulfate- anions;
- analyses of traceable quantities of metal cations (calcium, magnesium, aluminum).

Physical and chemical properties:

- operation temperature range: –10 °C to +135 °C;
- sterilization by steam at a temperature of 121 °C within 20 minutes, by gas (ethylene oxide) or by chemical compounds (formalin, ethanol);
- hydrophobic and anti-adhesive surface;
- high chemical resistance to strong concentrated and diluted acids, alkalis, aldehydes, aliphatic alcohols and aliphatic hydrocarbons for a long time;
- high chemical resistance to halogen substituted hydrocarbons and hydrocarbons of an aromatic series, simple and alcohol esters and ketones at chemical interaction with them within 7-30 days.

HDPE, LDPE
high density polyethylene
low density polyethylene

Advantages of polyethylene containers:

- suitable for chemical production, in a household, for food products and baby food, for medical products, for cosmetics, for household chemicals, for pharmaceutical production and winemaking
- well transported and stored on pallets and in a stack
- resistant against deformation
- no-breakable as glass thanks to what there are no losses of property
- easily utilized and burned, with no smoke

Physical and chemical properties of polyethylene:

- chemically resistant against mineral and organic acids, salts and alkalis, mineral oils, oil processing products (solubility in aromatic hydrocarbons at temperatures + 80 °C to + 120 °C).
- solid and highly elastic material resistant to impact and rupture. It has a high tensile strength and compressive strength
- frost-resistant material, it operates at a temperature down to – 60 °C
- resistant against exposure of ultraviolet rays
- resistant against sterilization by steam within several minutes at a temperature up to + 120 °C
- no taste and a smell, is waterproof

PET
polyethylene terephthalate

Advantages of polyethylene terephthalate containers:

- they are used in all areas of industry;
- they have high degree of the transparency similar to products from glass.

Physical and chemical properties of polyethylene terephthalate:

- low gas-tightness and excellent barrier properties;
- resistant against chemical attack of fats, mineral acids, organic solvents;
- well recycled and easily modified;
- impact-resistant in the wide range of temperatures;
- impact-resistant in the wide range of temperatures;
- frost-resistant, doesn't become fragile when cooling down to – 60 °C;
- resistant against heating up to + 70 °C;
- plastic material;
- low coefficient of moisture absorption.

POLYPROPYLENE LABORATORY WARE

Beakers, low form

without scale or printed blue scale

Material	Volume, ml	Outer/ internal diameter, mm	Height, mm	Division, ml.	First point, ml	Photo
PP	50	47/42	60	2	10	
PP	100	58,5/52	70	5	20	
PP	250	78/70	95	10	50	
PP	500	96/87	116	20	100	
PP	800	112/98	134	50	200	
PP	1000	123/108	145	50	200	

Laboratory funnels

Material	Diameter, mm	Stem outer diameter, mm	Stem length,mm	Height, mm	Photo
PP	25	6	22	40	
PP	56	10,4	40	80	
PP	75	10,4	64	120	

Material	Diameter, mm	Stem outer diameter, mm	Stem length,mm	Height, mm	Photo
PP	100	14	72	150	
PP	150	16	112	230	
PP	200	23	124	280	

Spouted cylinders with volumetric scale

Material	Volume, ml	Outer/ internal diameter, mm	Height, mm	Division,ml	First point, ml	Photo
PP	100	32/29	230	1	10	
PP	250	45/42	300	2	20	
PP	500	56/53	360	5	50	

Graduated measuring beakers with handle and volumetric scale

Material	Volume, ml	Outer/ internal diameter, mm	Height, mm	Division,ml	First point, ml	Photo
PP	500	91/80	117	25	25	
PP	1000	117/101	130	50	50	
PP	2000	135/125	190	125	250	

POLYPROPYLENE, POLYETHYLENE AND POLYETHYLENE TEREPHTHALATE LABORATORY WARE

Jar with dropper

1) with dropper cap; 2) with dropper cap and protective cap; 3) with protective cap.

Material	Volume, ml	Jar diameter, mm	Height without cap, mm	Neck diameter, outer/ internal, mm	Photo
HDPE, LDPE	40	35,6	58	7/5	

Storage Jars

– round

Material	Volume, ml	Diameter of jar, mm	Height without cap, mm	Neck diameter, outer/internal, mm	Color	Photo
HDPE, LDPE	40	35,6	63	25/22	matte	
PP	130	49	75	50/48	natural	
PP	150	49	85	50/48	natural	
PET	250	77 bottom/80 top	75	57/54	white, natural	
PET	500	82 bottom/87 top	118	57/54	natural	

– square

Material	Volume, ml	Base size, mm*mm	Height without cap,mm	Neck diameter, outer/internal, mm	Color	Photo
PET	250	63 x 73	83	57/54	natural	

– rectangular with liner

Material	Volume, ml	Base size, mm*mm	Height without cap,mm.	Neck diameter, outer/internal, mm	Color	Photo
HDPE, LDPE	500	95 x 72	120	56/52	white, natural	
HDPE, LDPE	750	95 x 72	165	56/52		
HDPE, LDPE	1000	95 x 72	208	56/52		

Storage bottle

– square

Material	Volume, ml	Base size, mm*mm	Height without cap,mm	Neck diameter, outer/internal, mm	Color	Cap	Photo
PET	125	42 x 42	112	24/22	brown, natural	ordinary cap or cap with bearer ring	
PET	270	60 x 60	121,5	24/22	brown, natural	ordinary cap or cap with bearer ring	
PET	510	66 x 66	169,5	24/22	brown, natural	ordinary cap or cap with bearer ring	
PET	540	66 x 66	176	24/22	brown, natural	ordinary cap or cap with bearer ring	

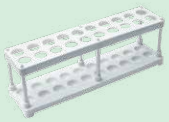
– rectangular

Material	Volume, ml	Base size, mm*mm	Height without cap,mm	Neck diameter, outer/internal, mm	Color	Cap	Photo
HDPE, LDPE	1100	72 x 95	215	26/24	natural	ordinary cap or cap with bearer ring	

Stoppers

Material	Slice	Max. head diameter, mm	Diameter under head, mm	Min. diameter, mm.	General height, mm	Head height, mm	Photo
LDPE	10/19	19	10	8	30	5	
LDPE	14/23	20	14	11	33	5	
LDPE	19/26	30	19	17	37	8	
LDPE	29/32	42	29	23	44	9	

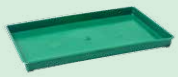
Pipette racks

Material	Cell quantity	Cell diameter, mm	Dimension, mm	Photo
PP	14	17,2	123x71x51	
PP	14	17,2	123x71x77	
PP, LDPE	20	18	241x59x75	
PP, LDPE	40	18	241x116x74	

Microplates for drop reaction

Material	Cell quantity	Cell diameter, mm	Dimension, mm	Photo
PP	14	17,2	123x71x14	
PP	20	18	241x67x12,5	
PP	40	18	241x116x12,5	

Trays

Material	Dimension, mm	Photo
PP	262x158x20	

Clamp-holder for tubes

Material	Length, mm	Base diameter, mm	Holder hole, mm	Photo
PP	151	12/12,8	10/30	

Clamp with holder for titration systems

Material	Length, mm	Base diameter, mm	Holder hole, mm	Photo
PP	151	12/12,8	10/30	

Stand with cells

Material	Dimension, mm	Cell quantity, pce	Cell diameter, mm	Photo
PP	243x142x54	22	36	

Spatula spoons

Material	Type	Dimension, mm	Photo
PP	narrow	150x12x2	
PP	wide	150x22x2	

Microlaboratory

The set for 2 students contains:

- Polypropylene trays – 6 pcs
- Polyethylene jar for dry reagents, 40ml – 20 pcs
- Polyethylene jar with dropper for solutions, 40ml – 30 pcs
- Polypropylene stand for jars with cells – 2 pcs
- Polypropylene pipette stand – 2 pcs
- Polypropylene funnel- ∅ 75 – 2 pcs
- Polypropylene spatula spoon – 2 pcs
- Polypropylene beaker, 100ml – 2 pcs
- Polypropylene beaker, 250ml – 1 pcs
- Transparent polypropylene microplate for drop reactions (14 cells) – 2 pcs
- Polypropylene clamp-holder for pipettes – 2 pcs
- Marks for jars – 2 sheets
- Period table – 2 sheets
- Table of solubility, electronegativeness, metal activity – 2 sheets

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