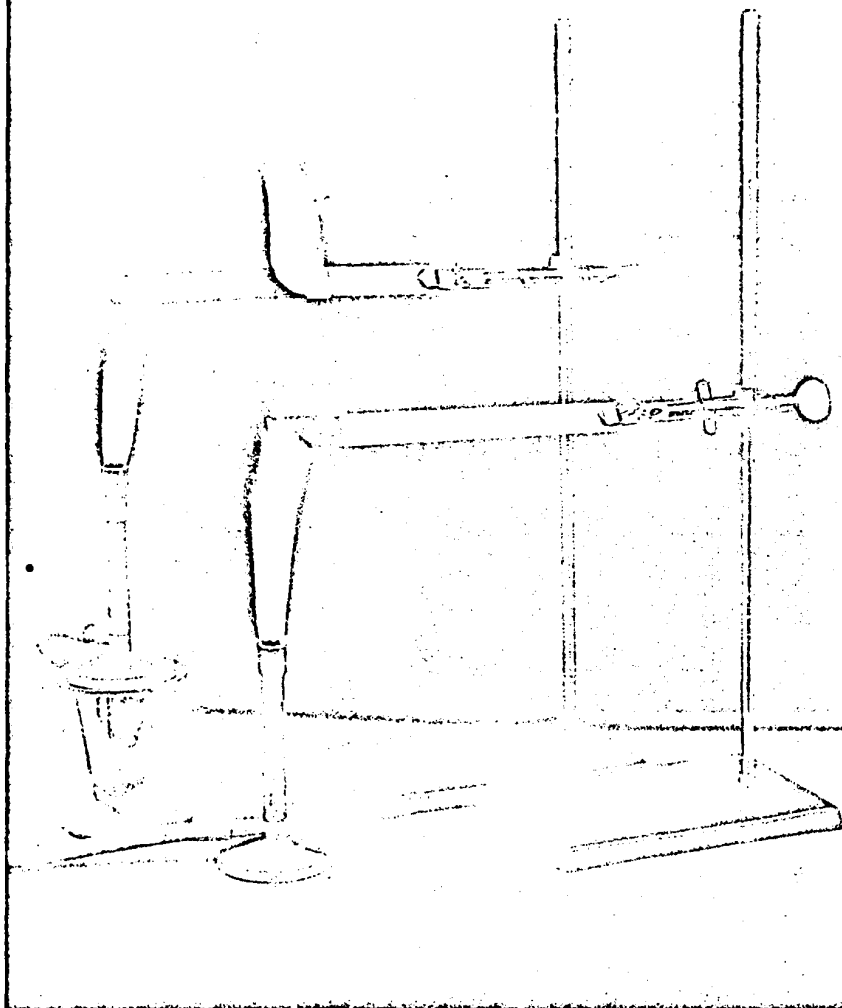




AROCLORS are COMPATIBLE with virtually all plastics resins • polyvinylidene chloride • cellulose acetate propionate • polyvinyl acetate • chlorinated rubber • ethyl cellulose • benzyl cellulose • polystyrene • nitrile rubber • phenolics • polyamides • epoxies • acrylics • urethanes • polyesters polyethylene • nitrocellulose • polyisobutylene • styrene-butadine • polyvinyl butyral • polyvinyl chloride • cellulose acetate butyrate

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60-OMC-2714 Plastics Technu

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HOW TO "BUILD IN" HIGH RESISTANCE TO FIRE AND CHEMICALS WITH LOW-COST AROCLOR® PLASTICIZERS AND RESIN EXTENDERS

AROCLOR chlorinated polyphenyls—liquid or solid—offer remarkable *inertness*. They don't burn, evaporate, hydrolyze, or oxidize. They defy strong acids and alkalis. They blend readily with nearly all resins, solvents, plasticizers, and other plastics-compounding

ingredients. You can choose from 13 standard AROCLORS—to impart outstanding flame retardance, chemical resistance, and other desired properties to your plastics compounds and protective coatings . . . at low cost.

NONBURNING EPOXIES

Aroclors are fully compatible with epoxy resins. Combined with a small amount of antimony oxide, they produce *nonburning* compositions. Aroclor 5460 yields epoxies with optimum compressive strength. Aroclor 1221 greatly improves flexibility.

formulation	AMINE-CURED EPOXIES		PHthalic ANHYDRIDE-CURED EPOXIES	
	control	modified	control	modified
liquid epoxy resin	100	100	100	100
diethylenetriamine	13	13	...	...
phthalic anhydride	...	...	75	75
antimony oxide	...	5	...	5
DMP 30 (Rohm & Haas)	...	...	0.1	0.1
AROCLOR 1260	...	15	...	...
AROCLOR 5460	...	...	...	15
properties				
compressive strength, psi	43,000	38,150	23,400	40,700
flexural strength, psi	20,100	22,100	16,900	19,000
heat distortion, °C.	117.5	92	143	135
FLAMMABILITY— Inches per minute (ASTM D635-56T)	NON-BURNING		NON-BURNING	

EXTENDERS FOR PVC

Aroclors are especially effective as secondary plasticizers or extenders for polyvinyl chloride. Aroclor 1262, used 1:3 with dioctyl phthalate, sharply reduces migration to nitrocellulose lacquers. All Aroclor compounds can be used to improve the chemical resistance of vinyl chloride-vinyl acetate coating formulations.

TYPICAL CHEMICAL RESISTANCE*

vinyl chloride/vinyl acetate copolymer; plasticizer concentration: 25%
TIME ELAPSED BEFORE FIRST SIGN OF FAILURE

Corrosive Agent	■ dioctyl phthalate	■ AROCLOR 1254
10% HYDROCHLORIC ACID (hours)	24	120
10% ACETIC ACID (hours)	14	120
UNSEED OIL, FATTY ACIDS (days)	27	90
10% SODIUM HYDROXIDE (days)	2	120
5% SODIUM HYPOCHLORITE (days)	1	14.5

*Plotted from independent evaluation data by the Northwestern Paint and Varnish Production Club (The Official Digest, Nov. 1955).
Conclusion: "The Aroclor 1254 had the best all-around chemical resistance."

SELF-EXTINGUISHING POLYETHYLENE

Aroclor 5460 gives self-extinguishing, low-density polyethylene with *minimum effect on tensile strength* or "memory." Aroclor 5460 substantially improves heat stability, too, compared with other common flame retardants.

LOW-DENSITY POLYETHYLENE

formulation	control	modified
polyethylene	100	100
antimony oxide		10
AROCLOR 5460		20
properties		
melt index	1.96	6.2
% elongation	655	650
tensile strength, psi	2130	1710
yield strength, psi	1395	1300
FLAMMABILITY— Inches per minute	7.1	NONBURNING

NEW BOOKLET gives the facts about "Aroclor Plasticizers"...compounding procedures, performance data, property tables, specific formulas. It tells how versatile AROCLORS could be your answer for better compounds at lower cost. Mail the coupon today



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