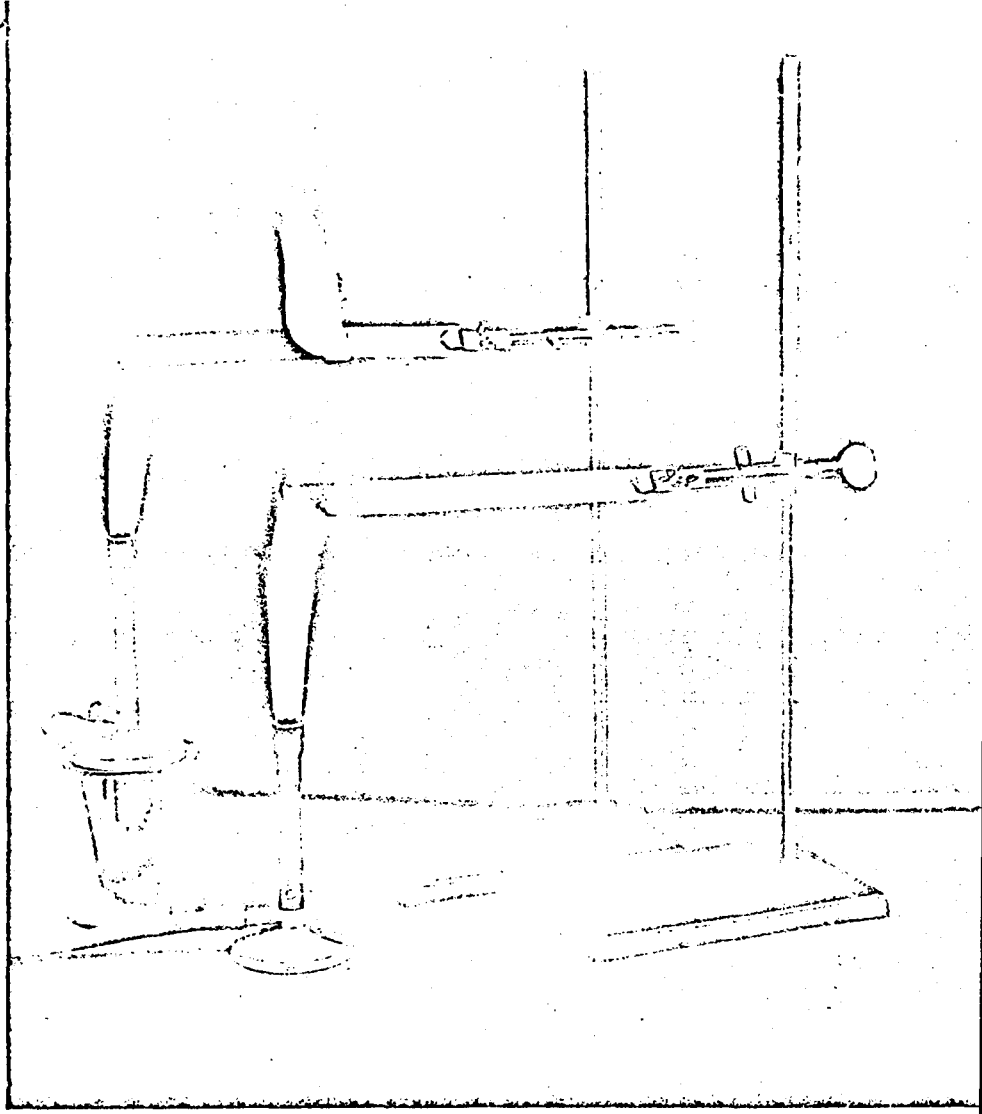


In these flame tests, one epoxy strip ignites and burns rapidly; the other, containing Aroclor, won't ignite at all.

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-butadiene • polyvinyl butyral • polyvinyl chloride • cellulose acetate-butyrate

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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 alkalies. 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.

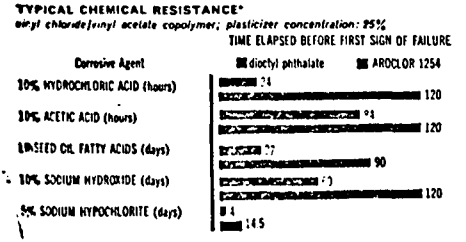
	AMINE-CURED EPOXIES		PHTHALIC ANHYDRIDE-CURED EPOXIES	
formulation	**control**	**modified**	**control**	**modified**
liquid epoxy resin	100	100	100	100
diethylenctriamine	13	13	...	...
phthalic anhydride	...	...	75	75
antimony oxide	...	5	...	5
DMP 30 (Rohm & Haas)	...	...	0.1	0.1
AROCLOR 1260	...	15	...	...
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)	0.82	NON-BURNING	0.6	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%



*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."

World, SPE Journal, January, 1961.

SELF-EXTINGUISHING POLYESTERS

The highly chlorinated Aroclors (1260, 5460, 4465) *effectively and economically retard flame* in polyester resins and do not significantly affect resin properties. Aroclors improve impact strength, too, and also increase the flexibility of the naturally brittle resin at less cost than plasticizing polyesters.

	POLYESTERS	
formulation	**control**	**modified**
polyester	100	100
styrene	56.5	56.5
antimony oxide	—	15
AROCLOR 5460	—	15
methyl ethyl ketone peroxide (60% in dibutyl phthalate)	3.2	3.2
cobalt naphenate (1% solution)	1.6	1.6
flammability	flammable	SELF-EXTINGUISHING

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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