



THE BLACK VAULT

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Identity

Poly methyl Methacrylate

Source

Indefinite

A/B, 7, 5/12

Age

Indefinite

Notes

Identity established by

C

Polymethyl methacrylate with the possibility of a few percent of cross linked esters in addition to polymethylmethacrylate. Identification was made on basis of (1) infra red spectrum (submitted with this report, (2) elemental analysis C 60.53% H 7.93% (3) density 1.19 @ 25°C. (4) softening point at 30° and (5) solubility in sulfuric acid and ethyl acetate.

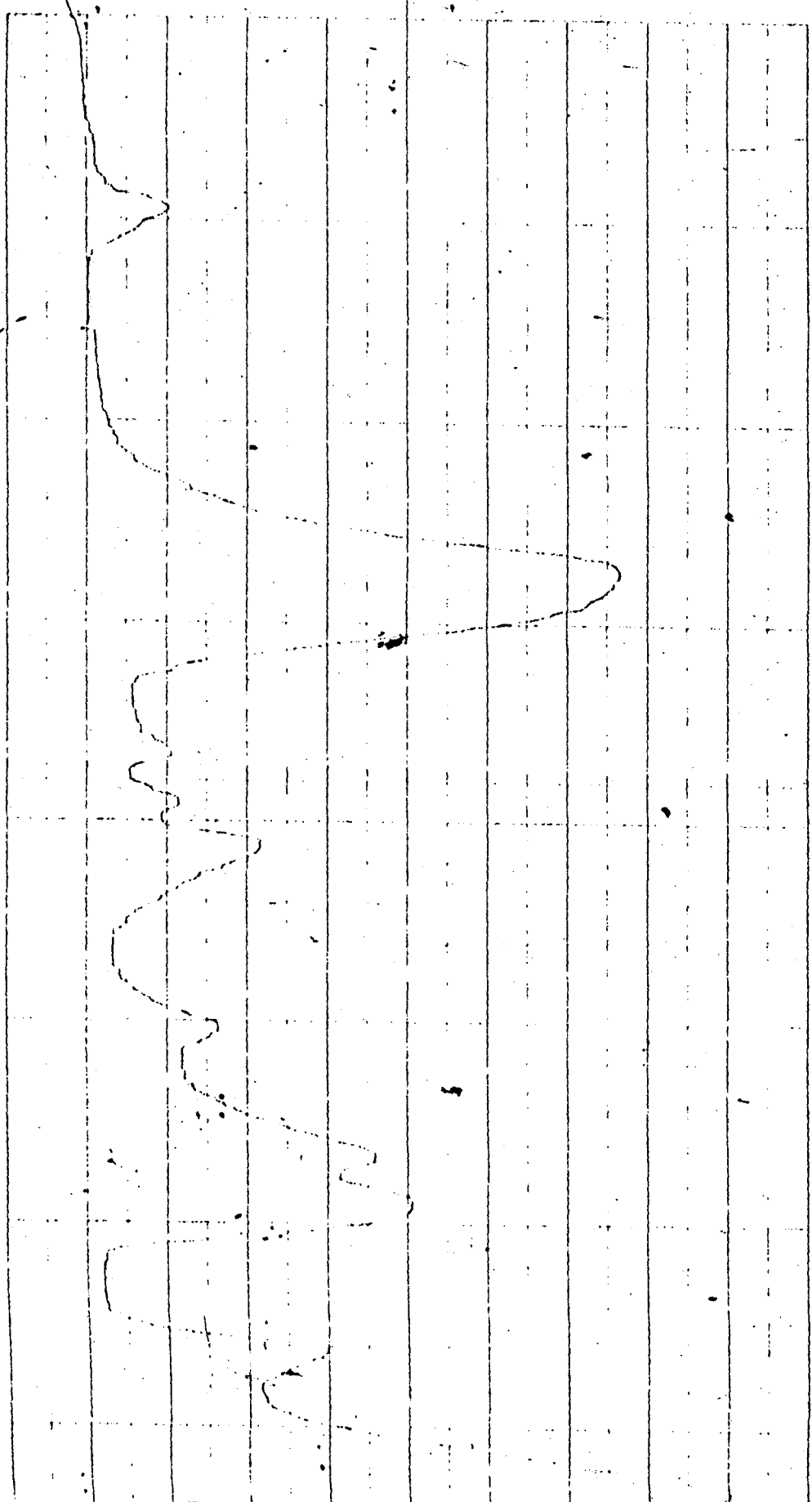
Source This resin is produced in U.S. Work has been done on it in many foreign countries. ~~_____~~ has raw materials from other process (by-products) which make it more economical to manufacture than in ~~_____~~ where work has ~~also~~ been done on the substance.

H-B/3

The casting resembles products made in ~~_____~~. Several subjective opinions were rendered to the effect that its composition and appearance might lead one to believe that this was its origin.

ve Numbers in cm

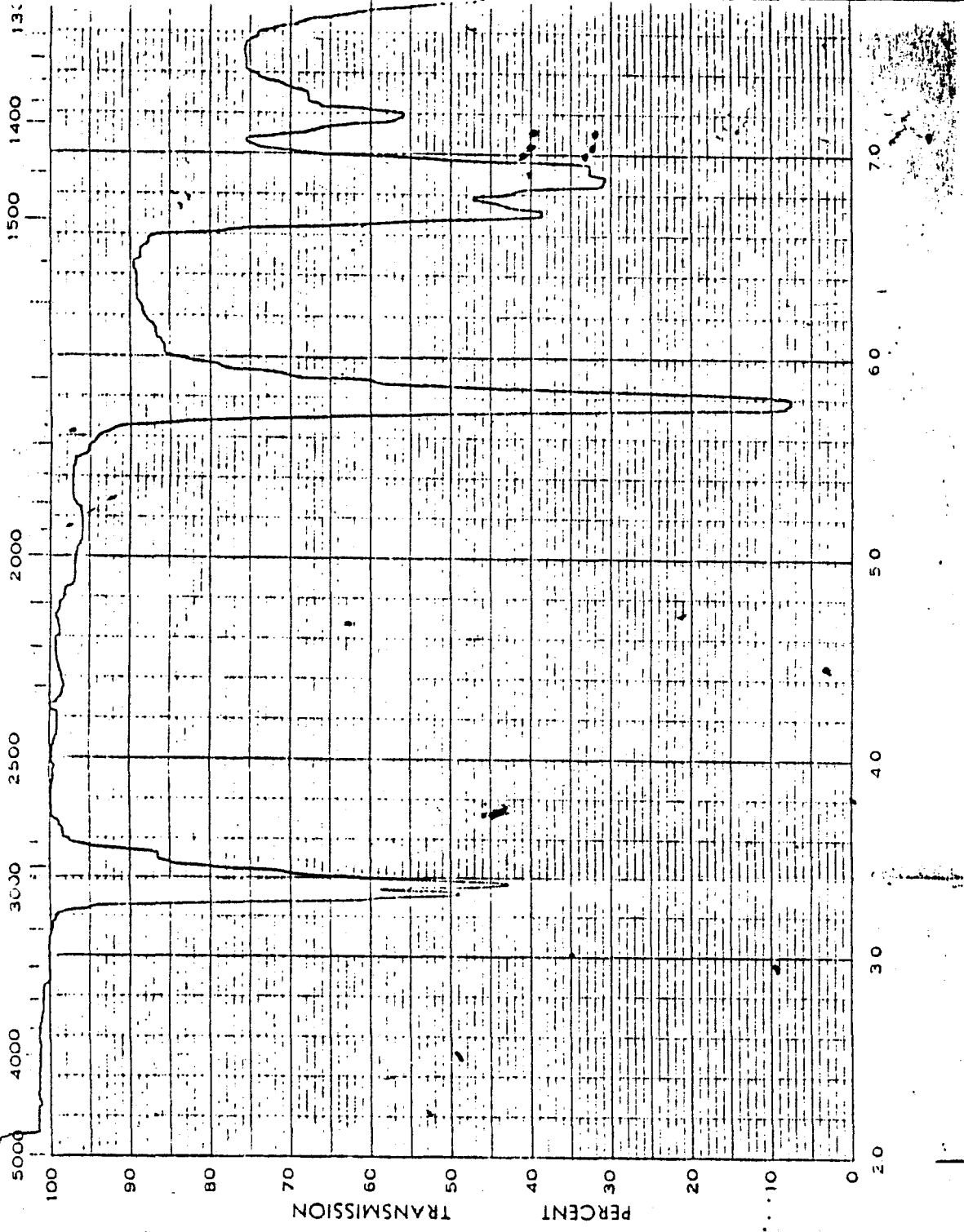
1100 1000 900 800 700 625



Length in Microns

TO [REDACTED] 11/24/51
 FROM [REDACTED] J
 SUBJECT: PLASTIC CONTAINER

No. 2955-64		INDEX
DATE	10V 20 '51	
SAMPLE		
PLASTIC FILM		
cast from ethyl soln.		
Purped for 2 hours.		
C = 60.53%		
H = 7.93%		
From		
Samp. Cell =	mm.	cms.
Comp. Cell =	mm.	cms.
Chem.	mg.	mg.
Solv.	NONE	
Vol.	c.c.	%
F.S.	Solid	C. Gas
		mm.



I R SPECTROPHOTOMETER
NA CI PRISM

To [redacted] 11/24/51
 FROM [redacted] J
 SUBJECT: PLASTIC CONTAINER