

SHELL CHEMICAL CORPORATION

REFERENCE

1700

SHELL DEVELOPMENT CO.	
REC'D DEC 26 1956	
FILED	FILED
TO HANDLE:	
α FBI	
BY:	

DATE DECEMBER 18, 1956

TO HOUSTON PLANT - MANAGER

FROM MANAGER - MANUFACTURING
DEVELOPMENT DEPARTMENT - H.O.

SUBJECT EPON ADHESIVE IX

Arrangements have been made for Emeryville to produce two batches of about 700 lbs each of this product, to be ready for shipment the week of December 17. This will relieve the present short supply situation. In addition two batches of about 160 lbs each of Epon 828/dicy dispersion will be made and shipped to Houston later this month for use in Adhesive IX manufacture.

We have noted your efforts in attempting to make this dispersion and later in attempting to find an outside supplier. Earlier it was mutually felt by Houston and Head Office that in view of the relatively small quantities of dispersion required at presently foreseen Adhesive IX offtakes, some means of obtaining this dispersion other than by purchase of a Morehouse mill should be used if at all feasible. Considering the difficulties which you have encountered we now believe that it would be desirable for you to have this equipment and agree that you take necessary steps to procure such equipment. Equipment of this type should be generally useful in resin-specialties processing.

We assume that you will be able to prepare specification product using dispersion made at Emeryville and we plan to arrange for all future Adhesive IX production at Houston. Should you encounter delay in securing the mill so that additional dispersion would be required from Emeryville kindly inform us so that arrangements can be made through established channels.

Kindly keep us informed of your progress.

PLAINTIFF'S EXHIBIT

SH-1027

M. R. Sprinkle
M. R. Sprinkle

HHG/hk

cc - Shell Development Company - Emeryville - Mr. C. L. Raymond ← This Copy For
Shell Development Company - Emeryville - Mr. F. B. Hilmer
Mr. A. W. Fleer
Resins and Plastics - Manager
Market Development - Manager
Distribution - Manager
Manufacturing Engineering - Manager
Manufacturing Operations - Manager

LAM 028991

ABS-018197



POST OFFICE BOX 2633

HOUSTON 1, TEXAS

November 28, 1956

REC'D DEC 5 1954
11:13
RMC
LAW
JCR JCR
TO NAME: RMC
JAN 12-7 BY JCR

Shell Development Company
Emeryville, California

Attention Mr. R. M. Cole

Gentlemen:

We are presently conducting laboratory experiments in an attempt to develop an operating procedure for the manufacture of Epon Adhesive IX in the Product Development Unit. Early attempts to manufacture the Epon 828-Dicy dispersion in a Read kneader have met with only limited success, and an excessive kneading time was required to manufacture the dispersion. To date, attempts to obtain an outside supplier have also been unsuccessful. For these reasons we are considering the purchase of equipment to manufacture the dispersion.

On page 16 of the attachment to your memorandum of June 22, 1956 to Shell Chemical Corporation, Manufacturing Department, New York, use of a Morehouse Mill equipped with 60 grit carborundum stones and variable clearance, is discussed. We would appreciate information about this equipment, i.e., the name and address of the manufacturer and the probable cost of a suitable unit. We would also appreciate any information you may have about possible alternate machines which you would consider satisfactory for preparing the Epon 828-Dicy dispersion used in Adhesive IX manufacture.

Yours very truly,

For Glenn Purcell
Plant Manager

CC: H.O. - Manufacturing-Development Dept. - Manager
H.O. - Manufacturing-Operations Dept. - Manager

LAM 028992

ABS-018198



SHELL DEVELOPMENT COMPANY

EMERYVILLE, CALIFORNIA

TELEPHONE OLYMPIC 3-2100

October 8, 1956

Shell Chemical Corporation
50 West 50th Street
New York 20, New York

Attention: Mr. M. R. Sprinkle

Gentlemen:

EPON ADHESIVE IX

Thank you for your letter of September 26, 1956. We appreciate the transfer of the manufacture of Epon Adhesive IX to Houston.

We have reviewed your product transmittal forms and are in agreement. However, there is one minor correction that should be made in our original process description. The formulation for Adhesive IX is given correctly but, on page 16 under "Process Materials" both titanium dioxide and Acetamine Orange are listed. These materials are not used in the manufacture of Adhesive IX.

For your information, you will find attached a table showing typical test data for recent batches of Adhesive IX made here.

Very truly yours,

R. M. Cole

LMC

JCR:maf

cc + attachment: Addressee (2)
Shell Chemical, Houston

bc + attachment: Messrs. M. D. Taylor
T. F. Bradley
J. C. Rapean

LAM 028993

ABS-018199

EPON ADHESIVE IX - TEST RESULTS

<u>Adhesive Batch No.</u>	<u>Tensile Shear, psi</u>			<u>Viscosity^{a)}, MMCPS</u>	
	<u>-70°F</u>	<u>77°F</u>	<u>180°F</u>	<u>2 RPM</u>	<u>10 RPM</u>
3469-119-1	2760 - 2800	2950 - 3015	3235 - 3295	2.240	0.672
3469-119-2	2950 - 2985	3165 - 3275	3475 - 3475	1.952	0.909
3652-71	2946 - 2886	3366 - 3086	3656 - 3426	--	--
3907-32-1	Incomplete	3060 - 2922	3274 - 3376	2.368	0.986
3907-32-2	Incomplete	3256 - 2920	3766 - 3540	1.568	0.691

a) Measured with a Brookfield viscometer.

LAM 028994

ABS-018200