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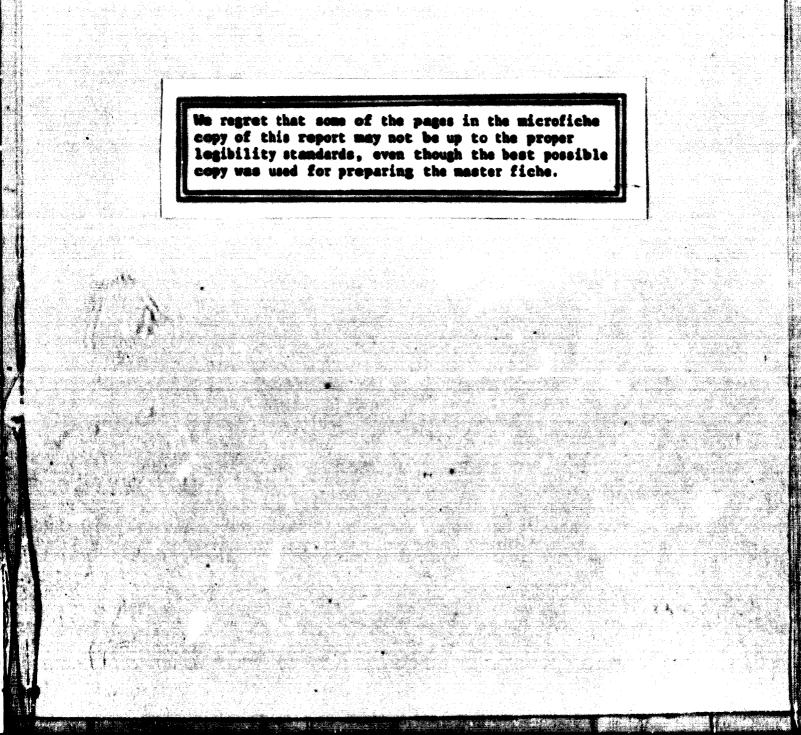
Fourth Training Programme in Plastics Technology Vienna, Austria, 10 September - 9 November 1973

THE DEVELOPMENT OF THE PLASTICS INDUSTRAL IN TANZANIAL

ph.

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The Tanzanian plastics industry employes some 600 people on direct processing. These industries, though not large by many standards, play a very important role in the economy and development of Tanzania.

Current consumption is approximately 4,000 tons of PVC, 2000 tonspolyethylane and 200 tons polyetyrens, flexible polyurethane foam for mattresses and cushions. Rigid polyurethane for chair shells are also processed. Output figures of these materials can only be estimated at 25 tons flexible polyurethane and b tons rigid polyurethane.

PVC is by far the most important material of which more than 50% of the total tonnage being utilized for water pipes, both pressure and none pressure classes. Present size limit is 225mm. This will shortly be increased to 400mm and an increase in capacity of 2,000 tons per year.

PVC is followed by Polyethylene both high density and low density. High Density consumption is 900 tons per year with 700 tons being utilized in the manufacture of water pipes. The balance of high density and low denisty is used mainly for packaging in the form of film and bottles.

Polystyrene is mainly used for packaging of pharmacuticals and food products.

The main aim of the plastics industry is to improve and develop Tenzenia. The expansion programme in hand are aimed to meet the requirements of the country, in particular the supply of fresh water and irrigation systems. To give some idea of the rate of expansion in this field the output of piges since 1968 have increased as follows:

UPVC PIPES

| 1968 | 50 0 | tons | 1972 | 2,200 | tons | 1974 | 4,200 tons |
|-----------|-------------|------|------|-------|------|------|------------|
| HOPE PIPE | S | | | · | | | |
| 1968 | 180 | tons | 1972 | 650 | tone | 1974 | 800 tom |

The increased output has been achieved by the installation of new equipment and by the introduction of new methods and existing equipment. Prior to 1971 only granulated uPVC could be used. Since this time compounding equipment and multi extruders have been installed to enable the use of dry blends. This has created savings for both Tanzania and the industry plus an increase in technical know how.

The field of low density pulyethylans has expanded from 450 tons in 1968 to 1,100 tons in 1972 and by 1974 should have reached 1,500 tons. The increase is mainly due to the increased usage of L.D.P.E. film for agricultural and building uses. The packaging of fertilizers being one product which is in development plus increasing the present lay flat film width from 3.5 meters to 5.2 meters for both agricultural and

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It should be noted that a great deal of what has been achieved has been with the assidance of UNIDD and ILD performel. Their assistance in the fields of technical astrona, market research frasability studies and training programme, both locally and oversead, has been of great assistance and a great deal of time has been saved due to the efforts of personnel from these offices.

At present UNIDU are working on a plan to rationalise the plastics industry in Tanzania. This is being carried out by personnel from Indoentre. Much of the ground work has been carried out, but due to the rather complexx problems and effects upon other industries this will still take some time.

Much of the present tooling used in Tanzania - dies and moulde has been manufactured locally, only the larger and more complex moulds are purchased from overseas. Efforts are at present being made to improve the capacity in both output and dimension.

Companies in Tanzania and their product lines:

- 1. Tegry Plastics: Extrusion of pipes, film, sheet, blos moulding of bottles
- 2. Simba Plastics: Injection moulding, extrusion of pipes, film and sheets, blow moulding bottles
- 3. Amboni " : Injection moulding of crates
- 4. National " : Injection moulding, blow moulding
- 5. Tanzania " Industries : Injection moulding of plasticised PVC polyurethans (mainly foctuser injection moulding)
- 6. Tanzania Shoe
 Co. Ltd. : Injection moulding footusar
 7. Tanfoam : Flexible polyurethane
- 8. Banco Products: Flexible polyurethane



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