Monsanto LIOC4IX

FROM (NAME & LOCATION) St. Louis Research Dept.

DATE : May 27, 1966

SUBJECT :

REFERENCE :

cc: A. W. M. Coaker - Res 3
J. R. Darby - Res 2
M. W. Farrar - Res 1
H. R. Ford - HFORD
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rf:

TO : Mr. Ron Trump
Mocan

Joe Darby has asked me to send you the information which you recently requested.

Typical electrical screening formulations are:

PVC	100
DOP	50
Tribase E XL	5
#33 Clay	18

PVC	100
DIDP	54
Scotch Laddie 810	4
Lectro 60	1
#33 Clay	18
Atomite	15
Stearic Acid	1/4

Both of the above would meet T and TW specs.

A typical THW formulation would use a 50/50 mixture of DIDP and DTDP, instead of only DIDP as in the second formulation above.

A typical 90° wire formulation would use DTDP and/or a polymeric, such as S-411. If insulation thickness is greater than 30 mils, DTDP can be used alone.

For 105° formulations, the following is our formulation:

PVC	100
Plasticizer	57*
Dythal XL	10
#33 Clay	10
DS-207	1/4

57 phr of S-409 or TOTM are used. Other plasticizers adjusted in phr to conform to same hardness.

DSW 587753

IN-10 REV. 11-65

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All the above formulations could also be used for obtaining tensile properties.

Our routine screening formulation for all plasticizers which we use to obtain basic data on volatility, T_f, extraction data, etc. is as follows:

For monomeric types:

PVC	100
Plasticizer	67
DS 207	1/2

For polymeric or permanent plasticizers:

PVC	100
Plasticizer	67
Mark WS	1

The test method for determination of BPA in DIDP is enclosed. This test may be modified for other plasticizers such as TOTM.

C. D. Bias

ds

DSW 587754