Calidria ASBESTOS

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for T. P. Norris
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UNION CARBIDE CORPORATION
P.O. Box 579 Niagara Falls, N.Y. 14302

By R. E. Byrne, Jr. - E. J. Kleber

Date 10/15/74

End Use: Thermoformed Products

Full Name Hoosier Fiberglass Industries, Inc. 2011 S. Third Street Address P. O. Box 354 Terre Haute, Ind. Mfrs. of (812) 232-5027	Interviewed Richard R. Tucker - Pres Jim White - General Mgr.



OBJECTIVE

Observe thermoforming characteristics and make dust counts during thermoforming of HDPE - RG-600 sheet.

DISCUSSION

Sheet made earlier in the day at Futurex was checked for thermoformability and dust counts were collected in the area and on the operator. The only dust generated was during sawing of the sheet to size.

All three thicknesses, 100, 125, and 150 mils, vacuum formed very well with excellent detail in a materials handling tray normally made from ABS. White and Tucker were most impressed by the excellent stiffness. We demonstrated the difference in burning characteristics of HDPE and HDPE - RG-600 which really got their attention. Not only does RG-600 slow the burning rate but there was no dripping of flaming drops as was the case with the unfilled resin. Both White and Tucker thought we should try to capitalize on this facet of RG-600.

On the more negative side, sheet preheating with the RG-600 was about twice as long as the sheet usually used (at the same temperature). This could probably be shortened by using higher temperatures. They also observed that it took "quite a bit" longer to cool the part before removal from the mold. This might be overcome by circulating cool water through the mold. At any rate, the Hoosier people were sufficiently impressed to eagerly await the larger sheet necessary to form plastic pallets and larger containers. They are also interested in industrial tanks for "corrosive overflows" and special design automotive tanks. Not sure what these latter two applications are, but we gathered that automotive people are considering multiple plastic gas tanks to be tucked away in various body cavities in order to move the tank from the rear-end (collision) area.

Will keep in touch with Hoosier to follow their program with larger sheet.

Typed 10/18/74
cjb

REPORT OF CALL

Calidria

for T. P. Norris
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UNION CARBIDE CORPORATION
P.O. Box 579 Niagara Falls, N.Y. 14302

By R.E.Byrne

End Use: RG-600

Date 7/31/74

Full Name Hoosier Fiberglass Address 2011 S. 3rd Street Terre Haute, Ind. 47808 Mfrs. of (812-232-5027)	Interviewed J. C. (Jim) White - Gen'l.Mgr. (Teleçon)

OBJECTIVE: Discuss interest in RG-600

DISCUSSION

Hoosier Fiberglass is somewhat of a misnomer in that they are largely thermoformers of thermoplastic sheet, little of which contains glass. They thermoform (used to be called vacuum forming) industrial pallets, containers, etc. Their products are currently on the high price side and their interest in RG-600 is to beef up their resin to allow thinner sections, hence, less material and lower cost. According to Jim White, thermoformers and sheet extruders should be "beating down our doors for RG-600." (I couldn't agree more!) I told him, given enough time, I'm sure they will be.

Hoosier does not compound resin, nor do they extrude sheet, so I agreed to try to get 500 lb. of HDPE with a 30% loading of RG-600 compounded for them. Jim said he would get it made into sheet and subsequently form it. I'm checking with Bound Brook to get the HDPE compounded. It is my intention to get extra material made (ca 1000 lb.) so that we can get samples of the compound, the sheet, and a thermoformed part or two for samples. This will allow us a good chance to get a few dust counts, also. We will then be in a position to beat down a few doors for ourselves.

I promised to get back to Jim before August 12 with a proposition.

Typed 8/2/74
rvg