

Review - Can see why Borden is concerned about VCM in copolymer -

RECEIVED

UC 149-2



INTERNAL CORRESPONDENCE

M. E. EISENHOUR

P. O. BOX 471, TEXAS CITY, TEXAS 77590

CHEMICALS AND PLASTICS

TO (NAME) Mr. Paul Smallwood
COMPANY
LOCATION DALLAS SALES OFFICE

DATE August 20, 1975

RECEIVED

AUG 25 1975

R. N. WHEELER, JR.

COPY TO

Mr. T. R. Belliakoff
Dr. J. C. Chaty
Mr. M. E. Eisenhower
Mr. R. L. Frantz
Mr. J. R. Peterson
Mr. G. T. Scott
Mr. G. C. Shipston
Mr. R. W. Sesler
Mr. G. F. Tacquard

SUBJECT Evaluation of Competitive PVC Resin
Produced by Borden Chemical Company

We have evaluated a sample of Borden PVC resin (unknown nomenclature) obtained on a June 13, 1975 customer service call to Uvalde Rock and Asphalt Company in Houston, Texas.

Data on Borden resin, along with typical data for VSJE-10, the nearest UCC compositional and molecular weight counterpart are shown in the attached table.

The inherent viscosity, PVC content, bulk density and contamination (Syntron count) values on the Borden resin are within VSJE-10 specifications. Median particle size and particle size distribution are also very similar to values obtained on VSJE-10.

The 17.1 yellow factor, however, is significantly higher than UCC specifications and it would be a totally unacceptable color rating for VSJE-10.

The Borden resin contained 214 ppm of VCM which is in the lower range of typical values for VSJE-10. This low level of monomer may be due to resin storage conditions but the high yellow factor indicates that Borden probably exposed this resin to an excessive and/or prolonged amount of heat during the manufacturing process.

In conclusion the Borden resin does not appear to have any property advantages over VSJE-10 and we would expect the high color level to be a real product deficiency.

Please let us know if you need additional information on the Borden resin.

G. E. Vaughan
G. E. Vaughan

/kw
Attachment

UCC
038878

	Borden <u>"Unknown Nomenclature"</u>	Typical <u>VSJE-10</u>
Inherent Viscosity	0.46	0.48
Vinyl Chloride, % of wt	85.0	86.2
Free Vinyl Chloride, ppm	214	550
Apparent Bulk Density, lbs/ft ³	37	36
Screen Analyses:		
Wt % thru 40	100	100
60	91	98
80	74	83
100	43	44
140	10	6
200	2	1
Median Particle Size, micron	155	153
Syntron Count, specks/lb	98	80
Virgin Resin Color:		
Yellow Factor	17.1	7.5
Brightness	78.6	91.5

GEV/kw
8/20/75

UCC
038879