

Inter-office memo

TENNECO CHEMICALS, INC.

To	H. H. Duhamel R. D. Richards	At	Burlington	Date	January 30, 1969
From	H. B. Carr	At	Burlington	Copy to	P. F. Albanese Burlington P.E. R. S. Cole J. C. Fisher W. Heal E. L. Kanyok G. I. Rozand P. R. Scarito M. W. Williams File ✓
Subject	Control Chart Reviews, Week of 1/20/69				

Attached are the Control Chart Reviews that we made the week of 1/20/69. If the timing is agreeable, our next reviews will be the week of 2/17/69.

H. B. Carr
H. B. Carr

HBC/rjl

Attachment (5)

COLORITE 015749

ANALYSIS

KEY

1. IC - In Control
2. OC - Out of Control
3. High or Low - The property is running either higher or lower than the midpoint of the spec. range and requires corrective action. Exceptions, of course, would be high heat stabilities or low contamination and gel levels and these should be consistently maintained.
4. ---Line - No data for analysis
5. Blank Space - Indicates property was in control at the last review and has stayed in control.

I. Homopolymer

Particle size distribution, dry blend and bulk density are properties that require close attention. In regard to particle size distribution, the specification changes for 225/16R, 250-1 and 250-12, that were discussed with Process Engineering, will be reviewed with Customer Service Laboratory.

II. Copolymer

Specific property control by product type that we reviewed were as follows:

1. 314
 - a. R. V. - R. V. has been consistently running to the high side. Since raising the reaction temperature is not advisable in this case, Production will request that Process Engineering review this problem.
 - b. Screen - Gelatin level has been lowered to coarsen the particle size.
2. 385
 - a. L.B.D. - This property should be lowered to bring it into control.
3. 389
 - a. Screen - Lowering the gelatin level has brought this property to mid-range.

ANALYSIS (Cont'd.)

III. Plastisol

Sufficient data to review was available only for 1755 and 1742 due to the production schedule for the period.

Two specific areas of property control discussed were:

1. 1742
 - a. 1 day Brkfld. - While this property was statistically running to the high side, the within-lot control was improved over the last period.
 - b. R. V. - The low relative viscosity experienced for the period indicates that the reaction temperature should be lowered. However, since this would cause longer reaction rates and poorer economics, the specification will be reviewed with Customer Service Laboratory.

BURLINGTON HOMOPOLYMER
CONTROL CHART REVIEW
1/21/69

January, 1969

	<u>150</u>	<u>175</u>	<u>225/16R</u>	<u>250-1</u>	<u>250-2</u>	<u>250-12</u>
Visc. $\bar{X}$	IC (High)		IC	High		Low
Visc. r	IC		IC	IC		IC
Gels $\bar{X}$	IC	---	IC			
Gels r	IC	---	IC			
D.B. $\bar{X}$	---	---	High	Low	High	Shift - Low to High
D.B. r	---	---	IC	IC	IC	OC
LED $\bar{X}$	High	High	Low	Low	High	Low
LED r	IC	OC	IC	IC	OC	IC
H.S. $\bar{X}$						
H.S. r						
Cont. $\bar{X}$						
Cont. r						
Screen $\bar{X}$	IC (Low)	Low	Shift - High to Low	Shift - High to Low	IC	Shift - Low to High
Screen r	IC	IC	OC	OC	IC	OC

COLORITE 015752

BURLINGTON COPOLYMER
CONTROL CHART REVIEW
1/21/69

January, 1969

		<u>314</u>	<u>315</u>	<u>380</u>	<u>382</u>	<u>384</u>	<u>385</u>	<u>389</u>
Visc.	$\bar{X}$	High			IC	IC	High	
	r	IC			IC	IC	OC	
LBD	$\bar{X}$		High		High	IC	High	Low
	r		IC		IC	IC	OC	IC
H.S.	$\bar{X}$	---				---		
	r	---				---		
Cont.	$\bar{X}$					2 pts. High		IC
	r					IC		IC
Screen +100	$\bar{X}$	Low	IC		IC	IC	IC	IC
	r	IC	IC		IC	IC	IC	IC
Vols.	$\bar{X}$					IC		
	r					IC		
I PTU	$\bar{X}$	IC			---	---	---	---
	r	IC			---	---	---	---
Brab.	$\bar{X}$		IC			IC		IC
	r		IC			IC		IC
T.O.	$\bar{X}$	---	---		---	---	Low	
	r	---	---		---	---	IC	

Insufficient Data

COLORITE 015753

BURLINGTON PLASTISOL
CONTROL CHART REVIEW
 1/24/69

January, 1969

		<u>1755</u>	<u>1742</u>	<u>1716</u>	<u>1732</u>	<u>1730</u>
Relative Viscosity	$\bar{X}$		Low			
	r		IC			
Volatiles	$\bar{X}$	---	---			
	r	---	---			
Heat Stability	$\bar{X}$	---	---			
	r	---	---			
Brookfield-1 day	$\bar{X}$	Trend High	High Side			
	r	Variable	IC			
Severs	$\bar{X}$	Low				
	r	IC				

Insufficient Data

Insufficient Data

Insufficient Data

COLORITE 015754