



373 Washington Street
Chardon, Ohio 44024
(216) 285-2161

June 16, 1983

Mr. Jim Jones
Norge
Lyerla Drive
Herron, Illinois 62948

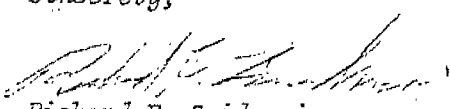
Dear Jim,

Enclosed per our phone conversation on June 3, 1983 are Chardon compound
V-4001 slabs marked as:

Control	-	No Low Temperature Plasticizer
1	-	10 Parts Low Temperature Plasticizer
2	-	20 Parts Low Temperature Plasticizer
3	-	30 Parts Low Temperature Plasticizer

I would appreciate knowing your comments as to the flexibility you need.

Sincerely,


Richard F. Znidarsic
Chief Chemist

dk

cc: Don Sullivan

CHARDO 01206

Norge Herron 1LL - Lye-12 Drive - 62948 AH. Jim Jones
V-4001 - Low Temp. -

	Control	12	22	31						
1 PVC	100 ✓	100 ✓	100 ✓	100 ✓						
6 DOP	70 ✓	60 ✓	50 ✓	40 ✓						
8 OOA	-	10 ✓	20 ✓	30 ✓						
17 G-62	3 ✓	3 ✓	3 ✓	3 ✓						
53 St. Acid	25 ✓	25 ✓	25 ✓	25 ✓						
120 Toner ?	05 ✓	05 ✓	05 ✓	05 ✓						
146 Sympson 241	2 ✓	2 ✓	2 ✓	2 ✓						
148 Sympson 1350	2 ✓	2 ✓	2 ✓	2 ✓						
	175 30	175 30	175 30	175 30						
2 slabs of each one to ship one to keep										
T	1950	1950	1975	1900						
E	425	400	425	450						
n	66/64	66/64	67/65	66/65						
Sp. Gr.	1.18	1.19	1.17	1.16						
Low Temp. ?										

STOCK

V-4001

MIXED

6-13-83

CURED

6-13+6-14

TESTED

6-14-83

CURE	STOCK THICK	LBS. %	LBS. %	LBS. %	LBS. %	BREAK	TENS. %	TENS. %	TENS. %	TENS. %	TENS. BREAK	ELONG	HARDNESS	SET
CONT	1. .072										1950	425	66/64	
ROL	2. .072										2000	430		
	3. .072										1900	400		
#1	1. .075										1875	400	64/64	
	2. .074										1950	400		
	3. .074										1975	425		
#2	1. .074										1925	400	61/65	
	2. .074										2000	425		
	3. .073										1975	425		
#3	1. .074										1900	450	60/65	
	2. .074										1950	450		
	3. .074										1850	450		
		Sp Grav												
		Control				2				3				
	WT IN AIR	2.00		2.05		2.00				2.00				
	WT IN WATER	.31		.32		.29				.28				
	VOLUME	1.69		1.73		1.71				1.72				
	Sp. Grav.	1.18		1.19		1.17				1.16				