



SUMITOMO CHEMICAL COMPANY, LTD.

15 5-CHOME, KITAHAMA, HIGASHI-KU, OSAKA, JAPAN

TELEX: 63823 SUMIKA J
63824 SUMIKA J
0522-7541 SUMIKA J

CABLE: CHEMISUMIT OSAKA
TELEPHONE: (06) 203-1231

July 25, 1972

Dr. Paul A. Lobo
Director
Business Development and Planning
Intermediates Division
Tenneco Chemicals, Inc.
Turner Place, Piscataway
N. J. 08854, U. S. A.

Dear Dr. Lobo,

We are pleased that we had a nice meeting when you visited us on July 4, 1972.

As you requested at that time, we are sending you separately 5 kg each of the following 5 grades of our paste resin by air and 20 kg each by sea.

1) Grade

PXN 0000 type
PXN 2000 type
PXN 4000 type
PXNL
PXNH

2) Air freight

House waybill	No. TAC-205 413
Master air waybill	No. 026-19173490
Flight	No. PAA-880
Date of departure	July 15, 1972

(We will send you the shipping documents as soon as they are made available.)

Enclosed you will please find a copy each of "Analysis value of Sumitomo paste resin" and "Comparison of property".

Incidentally, PXN 0000 type was chosen since it corresponds to Stauffer's SCC-20 from the stand point of average polymerization degree, gelation temperature and viscosity (initial viscosity: 4000 cp).

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PXN 2000 type and 4000 type were developed to meet the request of customers and have higher viscosity than that of PXN 0000 type.

PXNH has a lower viscosity than that of PXN 0000 type. The average polymerization degree and gelation temperature of this grade are different from those of PXN 0000 type.

On the other hand, PXNL corresponds to Marvinol VR-53 which has a low gelation temperature.

For your information, we would like to advise you that we have technology to modify polymerization degree, gelation temperature and viscosity according to customer requirement.

We hope these samples will be some value to you.

Very truly yours,

SUMITOMO CHEMICAL CO., LTD.

K. Fukami
pp. T. Tohno
Section Manager
Foreign Department

TT:YK

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Comparison of property

	Average poly- merization degree	Volatile matter (wt%)	Bulk density (gr/ml)	Viscosity (cp) Initial	Gelation temperature
PXN 0000 type	1,300	0.3>	0.22	4,000	80 ^{°C}
PXN 2000 type	1,300	"	0.22	4,500	80
PXN 4000 type	1,300	"	0.22	5,500	80
PXNL	900	"	0.22	5,500	65
PXNH	1,700	"	0.22	3,000	90
Stauffer SCC-20	1,300	"	0.20	4,000	80
Maruinol VR-53	1,000	"	0.30	10,000<	61

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Analysis value of Sumitomo paste resin

Grade	Lot No.	Average polymeri- zation degree	Volatile matter (wt%)	Bulk density (gr/ml)	Viscosity (cp)		Amount of sample sent	
					Initial	After one day	Air mail	Sea mail
PXN 0000 type	PO-2110	1,340	0.21	0.25	3,800	4,300	kg 5	kg 20
PXN 2000 type	P2-2024	1,340	0.19	0.18	4,100	4,500	5	20
PXN 4000 type	P4-2231	1,320	0.20	0.21	5,500	6,300	5	20
PXNL	PL-2081	900	0.22	0.23	4,900	5,300	5	20
PXNH	PH-2060	1,710	0.28	0.20	3,000	3,300	5	20

SUNITOMO PLASTISOL RESINS

Resin	Type	Lot No.	Brookfield ¹						Severs ¹		Hegman, RS	Clarity	Heat Stab. ²	Rel. Visc.	Methanol Ext., %	Mean Part. Size, microns
			Visc.			Yield			Visc., Poise	Shear Rate, Sec. ⁻¹						
			Poise	days		Dynes/cm. ²	days									
			0	1	7	0	1	7								
PXN	0000	PO-2110	34	42	55	6.4	7.3	6.4	94	1210	8	good	40	2.44	1.08	2.6
PXN	2000	P2-2024	41	43	49	10.0	7.1	9.3	82	1590	8	fair	40	2.49	1.51	3.8
PXN	4000	PH-2231	54	59	77	15.0	15.7	16.4	95	1200	5.5	grainy	40	2.44	1.73	2.6
PXNL		PL-2081	57	53	63	7.8	11.4	12.1	75	1513	6.5	fair	40	2.05	1.73	3.5
PXNH		PH-2000	38	47	46	2.1	8.5	11.4	110	1040	8	fair	40	2.67	3.40	4.5
1755			47	63	73	1.4	3.6	4.3	145	780	8	good	40	2.35	0.79	3.0
SGC-20			41	44	53	4.3	5.7	11.4	115	990	5	poor	40	2.46		3.5
DG-322			39	48	82	5.7	3.6	8.5	369	310	8	fair	30	2.50	1.62	3.2

Other tests:

Plate-Out: None plated out with 3 parts V-1515.

Deaeration: All except DG-322 were very poor (>600% increase).

Contamination: All samples free of contamination.

¹Formula: Resin - 100, DOP - 60.

²3 plr V-1515, minutes to color change.

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