TABLE 9

FORMULATION FOR BMRS-5303

	Old Formula	Proposed New Formula
BRN-8370	46.	48.
ZZN-0766 (Hexa and Lime)	8.4	8.6
RM-52D (Lime)	3.1	3.1
RM-18Q (Carey Asbestos)	18.5	-
RM-18Y (SG-200 Asbestos)	-	15.4
RM-42D (Calcium Carbonate)	-	6.6
RM-149D (Coal)	5.75	-
RM-134L (Pulp Flock)	12.0	12.0
RM-110R (Clay)	3.5	-
RM-25A (Nigrosine)	1.5	1.5
RM-90B (Calcium Stearate)	1.0	1.0

Approximate cost differential is +0.35¢/lb. for the new formula with a finer $CaCO_3$ at 3¢/lb. or 0.45¢/lb. with a finer $CaCO_3$ at 4.2¢/lb.

UCCS 0018712

PRODUCT NO	BMMB 5020 BN 15	UNIT							
ISSUE NO.	1								
DATE	10-6-67	R-3	(ALL WEIGHTS TO BE DESIGNATED IN POUNDS PER MIX)						
SUPERSEDES		GRADE				18			PER CENT FOR COSTING
MATERIAL CODE NO.	MATERIAL DESCRIPTION	MOBILITY FLOW				12.0/50 14.0/50			
415401	BRN 5250	Two Step Novolak				1313			43.78
4071	RM-4G	Hexa				190			6.27
52036	RM-52C	Lime				75			2.49
16036	RM-16C	Woodflour				1031			34.41
90026	RM-90B	Calcium Stearate				67			2.25
63276	RM-63AA	Burnt Umber				18			.60
18176	RM-18Q	Asbestos				142			4.73
435001	ZXN-0007	Brown Dye Mix				105			3.49
63116	RM-63K	Brown Pigment				59			1.99
	RM-104					75			2.50
		Totals				3075			102.50
Externally									
128166	RM-128P	Lirbium Stearate				0.05%			0.05%
								TOTAL	102.50
								YIELD	98.00

MANUFACTURING INSTRUCTIONS:

Notes:

(1) If formula fails to give desired plasticity, add or subtract resin in the following ratio:

2% change = 60# BRN-5350) Add or subtract from RM-16C
8# RM-4G)

UCASB00914265

INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

RIVER ROAD, BOUND BROOK, NEW JERSEY 08805

To (Name)	Dr. T.T. Szabo	Date	July 24, 1968
Division	Chemicals & Plastics		
Location	Bound Brook, New Jersey	Originating Dept.	Applications R&D
		Answering letter date	
Copy to	Mr. E.C. Boice - BB Dr. L.P. Jehle - NY Mr. G.J. Kuzmak - BB Mr. P.B. Potter - NY Mr. P.A. Thomas - BB Mr. R.H. Urban - NY Mr. W.S. Young - NY	Subject	Asbestos in Phenolic Molding Materials

As per your request, I am listing the amounts of various asbestos types which were used at Bound Brook during 1967 as fillers in phenolic molding materials.

Carbide Code No.	Description	Cost Incl. Freight, ¢/lb.	Consumption Lbs.
18026	Floats, Grade 7RF from Asbestos Fiber Distributors	2.8	1,358,000
18156	Fiber, KB653-6D from Asbestos Corporation Ltd.	6.2	48,000
18166	Floats, Grade 7TF from Johns-Manville	2.8	110,000
18176	Grit free floats, Grade RF-9 from Asbestos Fiber Distributors	3.12	1,010,000
18196	Fiber, Grade 7D4 from Lake Asbestos Co.	6.4	48,000

Several years ago, the filler grade of asbestos from the Metals and Minerals Division of Union Carbide was substituted unsuccessfully for 18026. The main problem was that asbestos agglomerates prevalent in some of the shipments were not always broken up and dispersed during compounding. These showed up as hard particles or protusions on parts molded from the compound. In addition, it was necessary to increase the resin content of the compound to maintain the same flow. Not only was important business jeopardized during this substitution, but much of the material containing the Metals and Minerals asbestos had to be scrapped or sold at distressed prices. At the time, the Metals and Minerals Division had to also absorb some of the shipping cost for their asbestos in order to be competitive with our other sources of asbestos.

UCASB00916548

"MASTER LIST"

SUPERSEDED TENTATIVE RAW MATERIAL CODES
(In T.R.M. Numerical Sequence)

TRM	Permanent	TRM	Permanent	TRM	Permanent
940396	620846	942509	3129249	956459	207139
940406	620856	942519	3130249	956508	114029
940416	620866	942559	146279	956539	235139
940426	620876	942569	6091249	956559	5490009
940436	620886	942579	6093249	956566	38556
940446	620896	942646	445126	956616	383136
940456	620906	942679	6034249	956709	237139
940496	620946	942739	252139	956729	246139
940506	620956	942959	4879249	956859	357169
940516	610896	942999	146549	956919	146619
940526	610906	943009	146609	956929	146249
940536	610916	943116	445136	957019	255139
940576	421036	943176	411769	957039	357129
940596	433216	951529	130139	957049	248139
940616	5554609	953299	161139	957116	437056
940726	382116	953396	472036	957169	202139
940949	259139	953416	118316	957309	254139
940999	146459	953489	171139	957316	146256
* 941406	41406	954109	705009	957336	411646
941069	247139	954176	18196	957346	397226
941169	7405249	954229	379239	957369	253139
941199	146289	954346	38576	957419	7051249
941249	7457249	954359	189139	957439	250139
941529	232139	954449	411719	957449	251139
941541	445076	954859	146389	957459	262139
941589	7061249	955109	146139	957479	6090009
941699	6039249	955164	390039	957489	257139
941739	146159	955256	124146	957499	263139
941749	3095249	955549	216139	957729	7404249
941789	7473249	955546	433546	957749	7402249
941809	3170009	955586	31086	957769	146369
941879	146149	955596	374076	957779	7062249
941889	146299	955759	146349	957789	264139
941939	146509	955819	146359	957809	146309
941979	6055249	955838	12121	957819	265139
941981	445086	955959	390039	957859	146319
941991	445096	955979	50079	957899	213139
942229	146429	955986	50066	957909	268139
942316	445116	956056	433716	957919	260139
942419	2005249	956149	146409	957939	217139
942429	4672249	956189	231139	958019	272139
942439	4724249	956199	228139	958049	238139
942449	4783249	956309	234139	958079	273139
942459	6064249	956326	433406	958089	274139
942469	6035249	956339	3103249	958129	3111249
942479	6036249	956359	227139	958209	146169
942489	6037249	956369	411709	958229	146239
942499	6056249	956399	196139	958239	146179

UCASB00916158

Cotton Flock

17046 - Dark, Hi-Impact (J. Eisenberg and Son, Inc.)
17106 - Chopped Sisal Type -76A, 1/8" Cut (Std-Union Fibre Co.)
* 17116 - Cotton Flock-Shearing Lint - (Spring Mills Inc.)
* 17126 - Light Colored Cotton Flock with 25% Synthetic Fibre, Suitable for use in Molding Material (Eisenberg)

Asbestos

18026 - Floats, Grade 7RF (Asbestos Fibre Distributors)
18156 - Asbestos Fibre KB-653-6D (Asbestos Corp., Ltd.)
18166 - Asbestos Floats 7TF (Johns-Manville)
18176 - Floats, Grade 7RF-9 (Asbestos Fibre Distributors)
18196 - Asbestos Fibre, Grade 7-D-4 (Lake Asbestos)
* 18206 - Asbestos Fibre AB6A (formerly TRM-931266) - Asbestos Corp. of Amer.
* 18219 - Asbestos Resin Grade-144 (formerly TRM-941659) - U.C.C., M&M Div.
* 18229 - Asbestos SG-210 - U.C.C.

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Cotton Flock

17046 - Dark, Hi-Impact (J. Eisenberg and Son, Inc.)
17106 - Chopped Sisal Type -76A, 1/8" Cut (Std-Union Fibre Co.)
* 17116 - Cotton Flock-Shearing Lint - (Spring Mills Inc.)
* 17126 - Light Colored Cotton Flock with 25% Synthetic Fibre, Suitable for use in Molding Material (Eisenberg)

17136 - 6-G Cotton Flock (Basic Plastic Mills Inc.)
17146 - Sisal Type-310 (International Fiber Co.)
17156 - Cotton Flock 160 density - Eisenberg
17166 - " " 180 " - "
17176 - " " 160 " Similar to 17046
17186 - Sisal Flock - Grade 125-M
17196 - " " " RC-5-S

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Asbestos

18026 - Floats, Grade 7RF (Asbestos Fibre Distributors)
18156 - Asbestos Fibre KB-653-6D (Asbestos Corp., Ltd.)
18166 - Asbestos Floats 7TF (Johns-Manville)
18176 - Floats, Grade 7RF-9 (Asbestos Fibre Distributors)
18196 - Asbestos Fibre, Grade 7-D-4 (Lake Asbestos)
* 18206 - Asbestos Fibre AB6A (formerly TRM-931266) - Asbestos Corp. of Amer.
* 18219 - Asbestos Resin Grade-144 (formerly TRM-941659) - U.C.C., M&M Div.
* 18229 - Asbestos SG-210 - U.C.C.
18239 - Asbestos SG-101 - U.C.C.

UCASB00914932

Cotton Flock

17046 - Dark, Hi-Impact (J. Eisenberg and Son, Inc.)
17106 - Chopped Sisal Type - 76A, 1/8" Cut (Std-Union Fibre Co.)
17126 - Light Colored Cotton Flock with 25% Synthetic Fibre, Suitable for use in Molding Material (Eisenberg)

17146 - Sisal Type - rnational Filler Co.)
17156 - Cotton Flock y (Eisenberg)
17166 - Cotton Flock y (Eisenberg)
17176 - Cotton Floc y-similar to 17046
17186 - Sisal Floc - G M
17196 - Sisal Flock - e 5 S
17206 - EISENBERG S.S. CLOSED (Eisenberg)
17216 - SISAL TYPE 57A (Int. F. & C.)
17226 - " " 70M (" ")
17236 SISAL - AFRICAN

Asbestos

18026 - Floats, Grade 7RF (Asbestos Fibre Distributors)
18156 - Asbestos Fibre KB-653-6D (Asbestos Corp., Ltd)
18166 - Asbestos Floats 7TF (Johns-Manville)
18176 - Floats, Grade 7RF-9 (Asbestos Fibre Distributors)
18196 - Asbestos Fibre, Grade 7-D-4 (Lake Asbestos)
18206 - Asbestos Fibre A36A (Asbestos Corp. of America)
18236 - " AE-101-UCC

UCASB00915320

Cotton Flock

17046 - Dark, Hi-Impact (J. Eisenberg and Son, Inc.)
5/26/72 D ~~17106 - Chopped Sisal Type - 76A, 1/8" Cut (Std-Union Fibre Co.)~~
5/26/72 D ~~17126 - Light Colored Cotton Flock with 25% Synthetic Fibre, Suitable for use in Molding Material (Eisenberg)~~

17146 - Sisal Type - 310 (International Filler Co.)
17156 - Cotton Flock 160 density (Eisenberg)
17166 - Cotton Flock 180 density (Eisenberg)
17176 - Cotton Flock 160 density-similar to 17046
5-26-72 D ~~17186 - Sisal Flock - Grade 125 - M~~
17196 - Sisal Flock - Grade RC - 5 - S
" " D ~~17206 - Eisenberg Sisal Closed (Eisenberg)~~
17216 - Sisal Type 57A (Int. Filler Co.)
" " D ~~17226 - Sisal Type 70M (Int. Filler Co.)~~
17236 - Sisal - African

Asbestos

18026 - Floats, Grade 7RF (Asbestos Fibre Distributors)
18156 - Asbestos Fibre KB-653-6D (Asbestos Corp., Ltd)
18166 - Asbestos Floats 7TF (Johns-Manville)
18176 - Floats, Grade 7RF-9 (Asbestos Fibre Distributors)
18196 - Asbestos Fibre, Grade 7-D-4 (Lake Asbestos)
5-4-72-D ~~18206 - Asbestos Fibre AB6A (Asbestos Corp. of America)~~
18239 - Asbestos RG-101 - U.C.C.

18299 - CALIDRIA ASBESTOS
- Grade - SG-200 - 1/4" PELLET
18359 — " - SG-200X - 1/8" PELLET

UCASB00916062