

MMB 403: New High Temp Master Batch					
Superior Heat Stability in Demanding Environments					
Performance Comparison @ 250 C *					
		1 phr		2 phr	
Physical Properties	MMB-403	Ce Octoate		MMB-403	Ce Octoate
Initial properties					
Sp. Gravity	1.093	1.094		1.093	1.099
Hardness Avg.	42	42		41	42
Tensile Strength (PSI)	1038	1031		1096	839
Elongation (%)	453	458		476	415
Modulus @100%	161	160		156	152
Comp Set - 72hr @ 177C	12	11		13	12
72 Hrs. 250C					
Hardness	37	36		36	34
Hardness (pts change)	-5	-6		-5	-8
Tensile Strength (PSI)	951	458		851	591
Elongation (%)	432	239		436	390
Modulus @100%	161	160		146	115
Tensile Strength %change	-8	-56		-22	-30
Elongation %change	-5	-48		-8	-6
Comp Set - 72hr @ 177C	12	35		13	23
168 Hrs. 250C					
Hardness	38	73		36	38
Hardness (pts change)	-4	31		-5	-4
Tensile Strength (PSI)	823	418		787	609
Elongation (%)	412	47		407	290
Modulus @100%	159	-		141	181
Tensile Strength %change	-21	-59		-28	-27
Elongation %change	-9	-90		-14	-30
Comp Set - 72hr @ 177C	12	28		12	21
1008 Hrs. 250C					
Hardness	44	-		44	61
Hardness (pts change)	2	-		3	19
Tensile Strength (PSI)	433	-		493	239
Elongation (%)	227	-		266	48
Modulus @100%	177	-		186	-
Tensile Strength %change	-58	-		-55	-72
Elongation %change	-50	-		-44	-88
Comp Set - 72hr @ 177C	10	-		9	17

*Notes: Data not for use to set specifications. HCR Base used for this study: SV-14000U. Dashes (-) mean sample too brittle to test.



MMB 403: New High Temp Master Batch				
Superior Heat Stability in Demanding Environments				
Performance Comparison @ 275C *				
	1 phr		2 phr	
Physical Properties	MMB-403	Ce Octoate	MMB-403	Ce Octoate
Initial properties				
Sp. Gravity	1.093	1.094	1.093	1.099
Hardness Avg.	42	42	41	42
Tensile Strength (PSI)	1038	1031	1096	839
Elongation (%)	453	458	476	415
Modulus @100%	161	160	156	152
Comp Set - 72hr @ 177C	12	11	13	12
72 Hrs. 275C				
Hardness	35	-	35	-
Hardness (pts change)	-7	-	-6	-
Tensile Strength (PSI)	563	-	576	-
Elongation (%)	404	-	424	-
Modulus @100%	112	-	106	-
Tensile Strength %change	-46	-	-47	-
Elongation %change	-11	-	-11	-
Comp Set - 72hr @ 177C	18	-	17	-
168 Hrs. 275C				
Hardness	39	-	40	-
Hardness (pts change)	-3	-	-1	-
Tensile Strength (PSI)	507	-	640	-
Elongation (%)	299	-	330	-
Modulus @100%	158	-	174	-
Tensile Strength %change	-51	-	-42	-
Elongation %change	-34	-	-31	-
Comp Set - 72hr @ 177C	13	-	11	-
1008 Hrs. 275C				
Hardness	60	-	58	-
Hardness (pts change)	18	-	17	-
Tensile Strength (PSI)	446	-	540	-
Elongation (%)	169	-	211	-
Modulus @100%	294	-	287	-
Tensile Strength %change	-57	-	-51	-
Elongation %change	-63	-	-56	-
Comp Set - 72hr @ 177C	13	-	13	-

*Notes: Data not for use to set specifications. HCR Base used for this study: SV-14000U. Dashes (-) mean sample too brittle to test.